

Search Report

STIC Database Tracking Number: 300338

To: Mamon Obeid Location: KNX 5A74 Art Unit: 3621

Date: 7/13/2009

Case Serial Number: 10/690911

From: Christian Miner Location: EIC3600

KNX 4B68

Phone: (571) 272-3010 christian.miner@uspto.gov

Search Notes

Dear Examiner Obeid:

Please find attached the results of your search for the above-referenced case. The search was conducted in Dialog, Proguest, and EBSCOhost.

I have listed *potential* references of interest in the first part of the search results. However, please be sure to scan through the entire report. There may be additional references that you might find useful.

If you have any questions about the search, or need a refocus, please do not hesitate to contact me.

Thank you for using the EIC, and we look forward to your next search!



I.	POTENTIAL REFERENCES OF INTEREST	
Α.	Dialog	
в.	Additional Resources Searched	
	INVENTOR SEARCH RESULTS FROM DIALOG	
III.	TEXT SEARCH RESULTS FROM DIALOG	13
A.	Patent Files, Abstract	1
В.	Patent Files, Full-Text	2
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B.	NPL Files, Full-text	4
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I. Potential References of Interest

A. Dialog

Dialog eLink: Order File History

13/3K/7 (Item 7 from file: 348) DIALOG(R)File 348: EUROPEAN PATENTS

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00719763

Method and apparatus enabling software trial using an encryption header

Verfahren und Vorrichtung mit einem Verschlusselungskopfteil, die es ermoglicht, Software zu erproben Methode et appareil permettant de prendre des logiciels a l'essai utilisant un en-tete de chiffrement

Patent Assignee:

International Business Machines Corporation; (200120)
 Old Orchard Road; Armonk, N.Y. 10504; (US)
 (Proprietor designated states: all)

Inventor:

 Cooper, Thomas Edward 858 West Willow Street; Louisville, Colorado 80027; (US)

7380 Mt. Meeker Road; Longmont, Colorado 80503; (US)

- Philips, Hudson Wayne
 Table Townston Street Popular Color
- 4725 Jameston Street; Boulder, Colorado 80301; (US)
 Pryor, Robert Franklin

Legal Representative:

Duscher, Reinhard, Dr. (94081)
 IBM Deutschland GmbH, Intellectual Property, Pascalstrasse 100; 70548 Stuttgart; (DE)

	Country	Number	Kind	Date
Patent	EP	681233	A1	19951108 (Basic)
	EP	681233	В1	20030618
Application	EP	95105448		19950411
Priorities	US	235031		19940425

Designated States:

DE; FR; GB;

International Patent Class (V7): G06F-001/00; G06F-012/14Abstract Word Count: 184 NOTE: 29A 29B

NOTE: Figure number on first page: 29A 29B

Legal Status Type Pub. Date Kind Text

Language Publication: English Procedural: English Application: English

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1022
SPEC A	(English)	EPAB95	15201
CLAIMS B	(English)	200325	1224
CLAIMS B	(German)	200325	1145
CLAIMS B	(French)	200325	1348
SPEC B	(English)	200325	13659
Total Word Count (Document A) 162	26		
Total Word Count (Document B) 173	76		
Total Word Count (All Documents) 3	3602		

Specification: ...The interfaces allow ordering and unlocking of the software products contained on the distributed media. Unlocking of the software product is accomplished by the reception, validation, and recording of a temporary access (decryption) key.

The file management program is resident in the user-controlled data processing system and becomes a part of the operating system in the user's computer. An example of such a resident program (in the PC.....timer can be used to count down a particular predefined period (such as thirty days); alternatively, the counter can be used to decrement through a predefined number of trial "sessions" which are allowed during the trial mode of operation. If the key is valid, the file management program communicates directly with the...

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The file management program is resident in the user-controlled data processing system and becomes a part of the operating system in the user's computer. An example of such a resident program (in the PC.....timer can be used to count down a particular predefined period (such as thirty days); alternatively, the counter can be used to decrement through a predefined number of trial "sessions" which are allowed during the trial mode of operation. If the key is valid, the file management program communicates directly with the...

Dialog eLink: Order File History 13/3K/13 (Item 13 from file: 349) DIALOG(R)File 349: PCT FULLTEXT (c) 2009 WIPO/Thomson. All rights reserved.

00320485

METHOD FOR SECURELY USING DIGITAL SIGNATURES IN A COMMERCIAL CRYPTOGRAPHIC SYSTEM

PROCEDE PERMETTANT D'UTILISER EN TOUTE SECURITE DES SIGNATURES NUMERIQUES DANS UN SYSTEME DE CHIFFRAGE COMMERCIAL

Patent Applicant/Patent Assignee:

- BANKERS TRUST COMPANY:
- · SUDIA Frank W:
 - SIRITZKY Brian:
 - . .

	Country	Number	Kind	Date
Patent	WO	9602993	A2	19960201
Application	WO	95US9076		19950719
Priorities	US	94277438		19940719

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Language Publication Language: English

Filing Language:

Filing Language: Fulltext word count:

14898

Claims:

...said digital signature, and wherein a user transaction in said cryptographic system requires verification by a recipient of said user transaction, said verification based on information in said digital certificates and requiring said public key; method of controlling access to said public key comprising the steps of: denying access to said public key; providing said recipient with at least one message containing rules of said system, said rules including maintaining secrecy of said public key; by said recipient, digitally signing said at least one document, by....policy in a cryptographic system, said policy requiring controlling access to a public key, said method comprising the steps of: denying access to said public key; providing a recipient with a message containing rules of said cryptographic system, said rules including maintaining secrecy of said public key; by said recipient, digitally signing said document, by which said.....document to form a digital agreement; and returning said digital agreement to said certifying authority; in response to said indicating by said user, by said certifying authority; activating said public key in said secure device.6e A method as in any one of ... status; and each confirm-to transaction by a user.7* A method as in any one of claims 1 (65 wherein said rules include rules to pay for use by said recipient of intellectual property used in creating or operating the system.8* A method as in claim 1 wherein said user transaction is.

Dialog eLink: USPTO Full Text Retrieval Options

11/5/5 (Item 5 from file: 2) DIALOG(R)File 2: INSPEC

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05351065

```
Title: A software authentication system for information integrity
Author(s): Harn, L.; Hung-Yu Lin; Shoubao Yang
Author Affiliation: Missouri Univ., Kansas City, MO, USA
Journal: Computers & Security, vol.11, no.8, pp.747-52
Country of Publication: UK
Publication Date: Dec. 1992
ISSN: 0167-4048
CODEN: CPSEDII
U.S. Copyright Clearance Center Code: 0167-4048/92/$5.00
Language: English
Document Type: Journal Paper (JP)
Treatment: Practical (P)
Abstract: The authors describe a software authentication technique based on the public key cryptography for information
integrity. The software provider can use a secret key to sign any released program and the user can verify the integrity of
programs obtained from vendors or a trusted information database. The software provider needs to go through a registration
process to become 'licensed' and obtains certificates from multiple certificate centers before being able to sign any released
program. Users need only one public key to verify the integrity of the programs (13 refs.)
Subfile(s): C (Computing & Control Engineering)
Descriptors: data integrity; message authentication; public key cryptography
Identifiers: software authentication system; information integrity; public key cryptography; software provider; secret key;
trusted information database; registration process; certificates
Classification Codes: C6130S (Data security)
INSPEC Update Issue: 1993-007
Copyright: 1993, IEE
17/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9: Business
& Industry(R)
(c) 2009 Gale/Cengage. All rights reserved.
Supplier Number: 23606872 (USE FORMAT 7 OR 9
FOR FULLTEXT)
Software 'Signs' Executable Content
Authenticode was recently launched by Microsoft; software provides method of
'signing' executable content with public and private keys )
Information Week , p 32
August 12, 1996
Document Type: Journal
ISSN: 8750-6874 (United States )
Language:
English Record Type: Fulltext
Word Count:
116
Authenticode, the microsoft software that provides a method of "signing" executable
content with public and private keys, was introduced last week. The digital-
signature approach is similar to public-key encryption techniques and lets Web
browsers validate the source and authenticity of downloadable content.
```

The product uses VeriSign Inc."s Digital ID 128-bit signatures to authenticate executable content in real time.

Any program, Java applet, dynamic link library, or ActiveX control can be digitally signed by ...

21/3.K/16 (Item 1 from file: 636) DIALOG(R)File 636: Gale Group Newsletter DB(TM) (c) 2009 Gale/Cengage, All rights reserved,

02868850 Supplier Number: 45822377 (USE FORMAT 7 FOR FULLTEXT)

Key Escrow Nitty Gritty; How the Criteria would be Implemented Export Practitioner, v9, n9, pN/A Sept 30, 1995

Language: English Record Type: Fulltext Document Type: Magazine/Journal; Trade

Word Count: 1168

...to the number of bits needed to decrypt a message which are not available over the communications channel. For some encryption algorithms the key is defined to be a number of bits which are kept secret and a number of bits which are transmitted in the clear (message key / initialization vector / salt). This criterion only specifies the number of secret bits.

2. The product shall be designed to prevent multiple encryption (e.g. triple-DES).

One way to do this would be for ...

...disabled.

If one follows the steps under criterion #3, a receiving program could verify the escrow certificate contained in the message header, extract the escrow public key, and verify that the encrypted message decryption key is also found in the header. If it is not there, decryption does not proceed. 7. The key escrow mechanism allows access to user's...

...with #10.

Following the example in criterion #3, the software could accept the load of a new escrow certificate. The software could store a ""root" public key which is used to verify a certificate containing the escrow agent public key which in turn is used to sign the individual user's escrow certificate. Hence, the header might contain both the escrow agent

B. Additional Resources Searched

Financial Times FullText (via ProQuest): No relevant results.

Internet & Personal Computing Abstracts (via EBSCOhost): No relevant results.

II. Inventor Search Results from Dialog

Dialog eLink: Order File History 21/5/1 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0009041623 Drawing available

WPI Acc no: 1998-599611/199851

XRPX Acc No: N1998-467001

Audio and video data communication method - involves using controller which accepts transmitted data, only when its random security ID number corresponds with specific pre-generated random number at reception side Patent Assience: SONY CORP (SONY)

Inventor: FUKAMI T: MAARI K

Patent Family (1 patents, 1 countries)									
Patent Number	Kind	Date	Application Number	Kind	Date	Update Type			
JP 10269290	Α	19981009	JP 199774183	Α	19970326	199851 B			

Priority Applications (no., kind, date): JP 199774183 A 19970326

Potent Details

Tuchi benns										
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes					
JP 10269290	Α	JA	36	40						

Alerting Abstract JP A

The method involves generating a random number as a security ID by using a security ID generator (19), during data communication. The random number is added to the transmission data. At the reception side, the random number of the transmitted data is compared with a pre-generated random number. A controller (16) accepts the received data when the random numbers are in accord.

ADVANTAGE - Prevents impersonating in case of communication of simple money supplement data.

Title Terms /Index Terms/Additional Words: AUDIO; VIDEO; DATA; COMMUNICATE; METHOD; CONTROL; ACCEPT: TRANSMIT; RANDOM; SECURE; ID; NUMBER; CORRESPOND; SPECIFIC; PRE; GENERATE; RECEPTION; SIDE

Class Codes

Dialog eLink: Order File History

23/5/1 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0012442877 Drawing available

WPI Acc no: 2002-388427/200242

XRPX Acc No: N2002-304409

Information processor for PDA transmits stored digital video broadcasted program data to mobile telephone, based on demand

Patent Assignee: SONY CORP (SONY)

Inventor: MAARI K

Patent Number Kind			

JP 2002077839 A	20020315 JP 20	00253334 A	20000824	200242 B

Priority Applications (no., kind, date): JP 2000253334 A 20000824

Patent Details

Then beams										
Patent Number	Kind	Lan	Pgs	Draw Filing Notes						
JP 2002077839	Α	JA	21	28						

Alerting Abstract JP A

NOVELTY - A receiver (111) of a video recording server (11) receives the digital video broadcast program which is then encoded and stored in a memory (114). Based on the demand from the mobile telephone (50), the stored data are transmitted. DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- Information processing system;
- B. Information processing method;
- C. Recorded medium storing information processing program

USE - For transmission of digital television broadcast program, information from digital versatile disk player to mobile telephone such as personal digital assistant.

ADVANTAGE - The broadcast program is viewed and listened reliably using mobile telephone.

DESCRIPTION OF DRAWINGS - The figure shows the components of the network system with image processing apparatus. (Drawing includes non-English language text).

11 Video recording server

50 Mobile telephone

111 Receiver

114 Memory

Title Terms /Index Terms/Additional Words: INFORMATION; PROCESSOR; TRANSMIT; STORAGE; DIGITAL; VIDEO: PROGRAM; DATA; MOBILE; TELEPHONE; BASED; DEMAND

Class Codes

File Segment: EPI:

DWPI Class: T01; W02; W04

Manual Codes (EPI/S-X): T01-J10D; T01-J10G; T01-M06A1A; T01-N01D1B; T01-S03; W02-C03C; W02-D05C; W04-C10A2

Dialog eLink: Order File History 23/5/2 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0009041622 Drawing available

WPI Acc no: 1998-599610/199851

XRPX Acc No: N1998-467000

Digital database distribution management method - involves computing service fee information using decoded utilisation information based on which service fee allocation is carried out

Patent Assignee: SONY CORP (SONY)

Inventor: MAARI K

Patent Family (5 patents, 2 countries)										
Patent Number	Update	Туре								
JP 10269289	Α	19981009	JP 199774182	A	19970326	199851	В			
US 20040073451	A1	20040415	US 199846693	Α	19980324	200426	Е			
			US 2003690911	A	20031022					
US 20040107167	A1	20040603	US 199846693	Α	19980324	200436	E			
			US 2003690747	A	20031022					
US 7120604	B2	20061010	US 199846693	Α	19980324	200667	E			
			US 2003690747	Α	20031022					
JP 3994466	B2	20071017	JP 199774182	Α	19970326	200770	Е			

Priority Applications (no., kind, date): JP 199774182 A 19970326

				Patent	Details		
Patent Number	Kind	Lan	Pgs	Filing Notes			
JP 10269289	Λ	JA	39	40			
US 20040073451	A1	EN			Division of application	US 199846693	
US 20040107167	A1	EN			Division of application	US 199846693	
US 7120604	B2	EN			Division of application	US 199846693	
JP 3994466	B2	JA	52		Previously issued patent	JP 10269289	

Alerting Abstract JP A

The method involves encrypting digital data using specific encryption key. The encrypted data is transmitted to requested party based on the received transmission demand. The encrypted data is decoded using the encryption key and is transmitted. The billing information corresponding to the utilised digital data for every user is determined based on the transmitted data. The determined billing information is then transmitted to the corresponding user. The utilisation information received by user is judged and decoded. The service fee for the utilised information to be collected from the respective user is determined based on the decoded data. Then allocation of service fee is carried out.

ADVANTAGE. Prevents copy or unauthorised usage of digital data.

Title Terms /Index Terms/Additional Words: DIGITAL; DATABASE; DISTRIBUTE; MANAGEMENT; METHOD; COMPUTATION; SERVICE; FEE; INFORMATION; DECODE; UTILISE; BASED; ALLOCATE; CARRY

Class Codes

Dialog eLink: Order File History 23/5/3 (Item 1 from file: 347)

DIALOG(R)File 347: JAPIO

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07209407 **Image available**

INFORMATION PROCESS AND PROCESSING METHOD, AND MEDIUM WITH PROGRAM STORED TEHREIN

Pub. No.: 2002-077839 IJP 2002077839 A 1

Published: March 15, 2002 (20020315)

Inventor: MAARI KOUICHI Applicant: SONY CORP

Application No.: 2000-253334 [JP 2000253334]

Filed: August 24, 2000 (20000824)

International Class: H04N-007/14; G06F-017/60; H04N-005/44; H04N-005/445; H04N-007/24; H04N-007/173

ABSTRACT

PROBLEM TO BE SOLVED: To make possible to view a digital broadcast even on a potable information terminal.

SOLUTION: In a digital portable telephone 50 with camera, an image recording server 11 is designated to record a program of digital broadcast. The image recording server 11 receives a designated program through a receiver 11, decodes it through a decoder 112 autiably for the digital portable telephone 50 with camera. Encoded content data is stored in a storage unit 114. When a user views a recorded program, the user request the image recording server 11. In response to the request, the image recording server 11 reads out a requested content data from the storage unit 114 and delivers it to the digital portable telephone 50 with camera.

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Dialog eLink: Order File History 7/3K/1 (Item 1 from file: 348) DIALOG(R)File 348: EUROPEAN PATENTS (c) 2009 European Patent Office. All rights reserved.

00677495

Non-volatile memory device Nichtfluchtige Halbleiteranordnung Dispositif de memoire remanente

Patent Assignee:

SONY CORPORATION; (214021)
 7-35 Kitashinagawa 6-chome Shinagawa-ku; Tokyo 141; (JP)
 (Proprietor designated states; all)

Inventor:

- Arase, Kenshiro, c/o SONY CORPORATION
 7-35, Kitashinagawa 6-chome: Shinagawa-ku, Tokyo; (JP)
- Maari, Koichi, c/o SONY CORPORATION
- 7-35, Kitashinagawa 6-chome; Shinagawa-ku, Tokyo; (JP)
- ...JP)
- Maari, Koichi, c/o SONY CORPORATION...

Legal Representative:

Thevenet, Jean-Bruno et al (39781)
 Cabinet Beau de Lomenie 158, rue de l'Universite; 75340 Paris Cedex 07; (FR)

	Country	Number	Kind	Date	
Patent	EP	649172	A2	19950419	(Basic)
.16.70707070707070707	EP	649172	A3	19951025	
.0101910101010101	EP	649172	В1	20020102	
Application	EP	94402301		19941014	
Priorities	JP	93258711		19931015	
	JP	93264639	Ì	19931022	

Designated States:

DE; FR; IT;

International Patent Class (V7): H01L-027/115; H01L-021/8247Abstract Word Count: 73

NOTE: 5

NOTE: Figure number on first page: 5

Legal Status Type Pub. Date Kind Text

Language Publication: English
Procedural: English
Application: English

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	217
SPEC A	(English)	EPAB95	5469
CLAIMS B	(English)	200201	99
CLAIMS B	(German)	200201	85
CLAIMS B	(French)	200201	130
SPEC B	(English)	200201	2843
Total Word Count (Document A) 568	7		
Total Word Count (Document B) 315'	7		••••••
Total Word Count (All Documents) 8	844		

III. Text Search Results from Dialog

A. Patent Files, Abstract

File 350:Derwent WPIX 1963-2009/UD=200943 (c) 2009 Thomson Reuters File 347:JAPIO Dec 1976-2009/Mar(Updated 090708) (c) 2009 JPO & JAPIO

Set Items Description

- 51 2153 (CONFIRM?? OR CONFIRMATION OR ACKNOWLEDG??? OR ACKNOWLEDGEMENT OR AFFIRM??? OR ATTEST??? OR CERTIFY??? OR CHECK??? OR SUBSTANTIAT??? OR VERIFY??? OR PROVE? ? OR PROVING OR VALIDAT??? OR AUTHENTICITY) (10N) ((PUBLIC OR PRIVATE OR SYSTEM OR SECRET OR SYMMETRIC OR SYNCHRONOUS OR CONTENT OR ASSESS OR DECRYPTION OR ASYMMETRIC OR SYMMETRIC) ()KEY? ? OR PKIN OR PGP OR WEB()TRUST)
- S2 11753938 S1 (5N) PLAYER OR PLAYERS OR RECORDER OR RECORDERS OR PLAYBACK OR DEVICE OR DEVICES OR VCR OR VCRS OR DVDR OR DVDRS OR APPARATUS OR DVR OR DIGITAL()VIDEO()RECORDER? ? OR PC OR PCS OR COMPUTER? ? OR DESKTOP? ? OR WORKSTATION? ? OR PROGRAM? ? OR APPLICATION? 2 OR MODULE? ?
- S3 186403 USAGE (3N) (CONDITIONS OR TERMS OR RULES OR RESTRICTIONS OR RIGHTS OR LIMITATIONS) OR (LIMIT??? OR RESTRICT??? OR SPECIF!?? OR PERMITTED OR FIXED OR DEFINED OR STIPULATED OR PREDEFINED OR PRESSTABLISHED OR PREDETERMINED) (3N) (NUMBER OR TIMES OR COPIED OR COPIES OR PLAYED OR DOWNLOAD??) OR AVAILABLITY(UDATES OR USAGE(UPERIODS
- S4 61216 (CRYPTOGRA? OR (ELECTRONIC OR DIGITAL)()(SEAL? ? OR SIGNATURE? ? OR CRETIFICAT??? OR ENVELOPE? ?) OR EMCRYPT??? OR CIPHER? ? OR CYPHER? ? OR HASH?? OR EMCOD??? OR EMCPHER??) (5N) (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPHO OR PHOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1 OR MPG()1 OR DVD OR DVD OR DVD OR OR SONGS OR SONGS OR AUDIOVISUAL)
- 55 226155 (UNENCOD??? OR UNCOD??? OR UNENCRYPT??? OR DECRYPT??? OR DECOP??? OR DEC?PHER??? OR KEY OK KEYS) (SN) (MESSAGE? ? OR SIGNAL? ? OR PACKET? ? OR TRANSMISSION? ? OR BLOCK? ? OR INFORMATION OR DATA)
- S6 151087 (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? 9 OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP ()3 OR (MPEC()1 OR MPEC()1 OR MPEC()1 OR COMPACT() (DISK? ? OR DISC? ?) OR AUDIOVISUAL OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR PRODUCT OR UNIQUE) (3N) (1D OR 1DS OR IDENTIFICATION OR NUMBER? ? OR IDENTIFIER? ?)
- S7 117 AU=(MAARI, K? OR MAARI K? OR MAARI (1N) (K OR KOICHI))
- S8 1554519 IC=G06F
- S9 541 S1 (5N) (PLAYER OR PLAYERS OR RECORDER OR RECORDERS OR PLAYBACK OR DEVICE OR DEVICES OR VCR OR VCRS OR DVDR OR DVDRS OR APPARATUS OR DVR OR DIGITAL()VUDEO()RECORDER? ? OR PC OR PCS OR COMPUTER? ? OR DESKTOP? ? OR WORSTATION? ? OR PROGRAM? ? OR APPLICATION? ? OR MODULE? ?)

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19
                S9 AND S3
S11
           15 S10 AND (S4 OR S5 OR S6)
           56
                S9 AND S4
           43
                S12 AND S5
$14
                S13 AND S6
$15
                S14 NOT S11
S16
                S15 NOT AY>1997
$17
                S9 NOT AY>1997
           88
S18
                S17 AND S8
           38
               S18 AND (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART
319
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S19 6 S18 AND (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR PHOTOGRAPH OR ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1) OR MPEG()1()AUDIO()LAYER(1)3 OR GAME OR GAMES CD OR COS OR COMPACT()(DISK? ? OR DISC? ?)

MPEG1)()AUDIO()LAYER()3 OR GAME OR GAMES CD OR CDS OR COMPACT()(DISK? ? OR DISC? ?)
OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR AUDIOVISUAL)

S20	0	S7 AND S1
S21	1	S7 AND S3
S22	3	S7 AND S4
\$23	3	S22 NOT S2

Dialog eLink: Order File History 11/5/13 (Item 13 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0007786419 Drawing available

WPI Acc no: 1996-412885/199642

Related WPI Acc No: 1998-009147; 1998-179618; 1998-193856; 1998-261976; 2002-225639; 2002-462772; 2004-050631; 2005-252363; 2006-605130; 2007-081309

Secure content delivery method for electronic transaction - involves encapsulating and encrypting digital information within containers and delivering them to user in protected environment

Patent Assignee: ELECTRONIC PUBLISHING RESOURCES INC CELPU-N); GINTER K L (GINT-I); INTERTRUST TECH CORP (NITE-N); INTERTRUST TECHNOLOGIES CORP (INTE-N); SHEAR V H (SHEA-I); SHEAR V M (SHEA-I); SPAHN F J (SPAH-I); VAN WIE D M (VWIE-I); INTERTRUST TECNOLOGIES CORP (INTE-N) Inventor: GINTER K; GINTER K L; SHEAR V; SHEAR V H; SHEAR V M; SIBERT O W; SPAHN F; SPAHN F J; VAN W D M; VAN WIE D; VAN WIE D M; WEBER R P; WIE D W; WIE D M V; HILL V H

US 5915019	Α	10000622	IUS(1128538861007, 69 cc	ntrie	19950213	199931	E
Patent Number	Kind	Date	(1814)cytisa Namber	Kind	19 DAI1 08	Update	Туре
PAPSIA96A37155	A 2	19960896	BD19998889993	A	19950213	199643	B
AU 199663266	A	19960918	AS 1999988845	A	19990763	199701	E
WS51998927155	A3***	18838887	NS 15853887393	A	18898213	188349	E
EP 861461	A2	19980902	FK 1339 777 3358	À	13398333	199839	E
US 5982891	Α	19991109	VS 1995388f073	Ż	13358213	199954	E
JP 10512074	W	19981117	IPs 19967964333	À	13399783	199905	įΕ
	ļ		WO 1996US2303	Λ	19960213		
US 5910987	Α	19990608	US 1995388107	Α	19950213	199930	E
			US 1996760440	A	19961204		

Priority Applications (no., kind, date): US 1995388107 A 19950213; US 199617722 P 19960515; US 199618132 P 19960522; US 1996689606 A 19960812; US 1996689754 A 19960812; US 1996699711 A 19960812; US 1996699712 A 19960812; WO 1996US14262 A 19960904; US 1996760440 A 19961204; US 1997778256 A 19970108; US 1997780393 A 19970108; US 1997780545 A 19970108; US 199737931 P 19970214; US 1997964333 A 19971104; US 1998208017 A 19981209; US 1998221479 A 19981228; US 1999247328 A 19990210; US 1999327405 A 19990607; US 1999328668 A 19990609; US 1999328671 A 19990609; US 1999335465 A 19990617; US 1999342899 A 19990629; US 1999389967 A 19990903; US 1999398665 A 19990917; US 2000632944 A 20000804; US 2000678252 A 20001003; US 2000698044 A 20001030; US 2001764370 A 20010119; US 2001790566 A 20010223; US 2001870801 A 20010601; US 2002106742 A 20020325; US 2002157061 A 20020530; US 2002189231 A 20020705; US 2003607562 A 20030625; US 2003618427 A 20030710: US 2003696659 A 20031028: US 200590982 A 20050324: US 2005102514 A 20050407: US 2005231355 A 20050920; US 2006359979 A 20060221; US 2006405130 A 20060413; US 2006412348 A 20060426; US 2006438953 A 20060522; US 2006440141 A 20060523; US 2006505778 A 20060816; US 2007807313 A 20070525; US 2007807342 A 20070525; US 2007821862 A 20070625; US 2007879006 A 20070712; US 2007827983 A 20070713; US 2007827996 A 20070713; US 2007827997 A 20070713; US 2007829553 A 20070727; US 2007894329 A 20070820; US 2007894538 A 20070820; US 2007980075 A 20071029; US 2007980245 A 20071029; US 2007980282 A 20071029; US 2007981297 A 20071030: US 2007981332 A 20071030: US 2007981465 A 20071030: US 2007981791 A 20071030: US 2007981816 A 20071030; US 2008259243 A 20081027

Alerting Abstract WO A2

The method involves encapsulating digital information within one or more digital containers. At least one portion of the information is encrypted. At least partially secure control information is associated for managing interaction with the encryted digital information and/or the digital container.

One or more of the digital containers are delivered to a digital information user. A protected processing environment is employed to securely control decryption of at least a portion of the digital information. ADVANTAGE. Provides secure chain of handling and control.

Title Terms /Index Terms/Additional Words: SECURE; CONTENT; DELIVER; METHOD; ELECTRONIC;
TRANSACTION: ENCAPSIII ATE: DIGITAL: INFORMATION: CONTAINER: HISER: PROTECT: ENVIRONMENT

Dialog eLink: Order File History 11/5/15 (Item 15 from file: 350) DIALOG(R)File 350: Derwent WPIX (c) 2009 Thomson Reuters. All rights reserved.

0007265455

WPI Acc no: 1995-322197/199542

XRPX Acc No: N1995-242487; N1997-003248

Information dissemination control system - has information structured logically to incorporate usage history and allowable access window before encryption into header and body portions

Patent Assignee: INST SYSTEMS SCI (SYST-N); UNIV SINGAPORE NAT (UYSI-N)

Inventor: ALCOTT D N; KANKANHALLI M S; MOHAN S K; NARASIMHALU A D; UEIGUO W; WANG W

		Patent Family 995 pour 636 2		naries			
Patent Number	Kind	Date	Application Number	Kind	Date	Update Type	
EP 6 72991	A2	19950920	EP 1995301630	Α	19950313	199542 B	
US 5499298	Α	19960312	US 1994210174	Α	19940317	199616 E	
JP 8272743	Α	19961018	JP 199559425	Α	19950317	199701 NCE	
EP 672991	A3	19961127	EP 1995301630	Α	19950313	199702 E	
EP 6 72 991	В1	19980520	EP 1995301630	Α	19950313	199824 E	
DE 69502526	Е	19980625	DE 69502526	Α	19950313	199831 E	

Priority Applications (no., kind, date); US 1994210174 A 19940317; JP 199559425 A 19950317

	I	atent	Deta	ails		
Patent Number	Kind	Lan	Pgs	Draw	Filing N	otes
EP 672991	A2	EN	22			
Regional Designated States,Ori	ginal DE G	В	<u> </u>		***************************************	
US 5499298	A	EN	20			
JP 8272743	A	JA	19	13		
EP 672991	A3	EN				
EP 672991	BI	EN				
Regional Designated States,Ori	ginal DE G	В				
DE 69502526	E	DE			Application	EP 1995301630
					Based on OPI patent	EP 672991

Alerting Abstract EP A2

The appts controls the dissemination of digital information. Digital information is structured logically to incorporate usage history and allowable access window before it is encrypted in a header and a body. The end user accesses the digital information with a tamper-proof controlled information access device by decrypting the digital information. A controller disposed in the controlled information access device permits end users to access transparently uncontrolled information. Controlled digital information will be accessed as long as the conditions specified by the information provider are met. The controlled information may be disseminated in either an on-line or off-line manner.

USE/ADVANTAGE - Provides transparent access to uncontrolled digital information together with controlled digital information with same access appts.

Title Terms /Index Terms/Additional Words: INFORMATION; DISSEMINATE; CONTROL; SYSTEM; STRUCTURE; LOGIC; INCORPORATE; HISTORY; ALLOW; ACCESS; WINDOW; ENCRYPTION; HEADER; BODY; PORTION

Class Codes

H04N-0007/167 Inte	Mational Pate	It Clas	ification	R	20060101	1	
G06F-0015/ pp C	Class Level	Scope	Position	Status	2006Tign	T	
988F:893789	C	I	Main	R	20060101 _{7"}		ĺ
G06F=007X062H04L-009/32	C	ĭ	Secondary	R	2006GLG17"		
G06F-0009/06	K	I		R	20060101		
G07F=0027/00	K	Ī	L	R	20060101		
G08F-0021/22	K	I	B	R	20060101		ſ
U04E-0009/00	K	Ī		R	20060101		
U04E-0009/10	K	I		R	20060101	, and	-
H04C-0009/68	K	I	L	R	20060101	·	ľ
H04N-0009/067	g	I		R	20060101	***************************************	-
H04L-0009/10	Α	I		R	20060101		2
H04L-0009/12	Α	I		R	20060101	-	-

ECLA: G07F-017/16, H04N-007/167D

US Classification, Issued: 38025, 3809, 38021, 38023, 38030, 38049

Dialog eLink: Order File History 16/5/1 (Item 1 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0007075711 Drawing available WPI Acc no: 1995-099929/199514 XRPX Acc No: N1995-078977

Document class verification method - verifies documents to assure that information in documents is authenticated and unchanged, documents may be identification cards containing both text and image of bearer and encryption information

Patent Assignee: PITNEY BOWES INC (PITB)

Inventor: BERSO	JIN W									
Patent Family (6 patents, 5 countries)										
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Турс			
EP 640946	Al	19950301	EP 1994306218	Α	19940823	199514	В			
CA 2130531	Α	19950224	CA 2130531	Α	19940819	199521	Е			
US 5426700	Α	19950620	US 1993110268	Α	19930823	199530	Е			
EP 640946	B1	19990203	EP 1994306218	A	19940823	199910	Е			
DE 69416360	Е	19990318	DE 69416360	Α	19940823	199917	Е			
			EP 1994306218	Α	19940823					
CA 2130531	C	20000125	CA 2130531	A	19940819	200025	E			

Priority Applications (no., kind, date): US 1993110268 A 19930823

	I	Patent	Deta	ails		
Patent Number	Kind	Lan	Pgs	Draw	Filing N	otes
EP 640946	A1	EN	13	4		
Regional Designated States,Or	iginal DE F	R GB	NL			
CA 2130531	A	EN				
US 5426700	Α	EN	11	4		
EP 640946	B1	EN				
Regional Designated States,Or	iginal DE F	R GB	NL			
DE 69416360	E	DE			Application	EP 1994306218
					Based on OPI patent	EP 640946
CA 2130531	C	EN	-			• • • • • • • • • • • • • • • • • • • •

Alerting Abstract EP A1

The method provides enabling information for enabling the retrieval of a decryption key from any document in a selected group of class of documents. It is determined if the document is indeed in the selected group. If it is, it retrieves the decryption key (Di) from the document.

The encrypted information (Ei[M]) is decrypted to obtain the decrypted information (Di[Ei[M]]) from which the information (M) is then derived from the document. The decrypted encrypted information is compared with the information

(M) to verify the information contained in the document as being authentic and unchanged.

ADVANTAGE - Provides for easy method of verification of document, such as driving licence or similar when presented as proof of identity by bearer.

Title Terms /Index Terms/Additional Words: DOCUMENT; CLASS; VERIFICATION; METHOD; ASSURE: INFORMATION: AUTHENTICITY: UNCHANGED: IDENTIFY: CARD: CONTAIN: TEXT: IMAGE: BEAR: ENCRYPTION

Class Codes

IPC	Class Level	Scope	Position	Status	Version Date
G07F-007/12			Main		"Version 7"
G07D-0007/00	A	I		R	20060101
G07D-0007/20	A	I		R	20060101
G07F-0007/12	A	I		R	20060101
G07D-0007/00	C	I		R	20060101
G07F-0007/12	C	I		R	20060101

ECLA: G07D-007/00B8, G07D-007/20, G07F-007/08E4

US Classification, Issued: 38023, 38051, 38030

File Segment: EPI:

DWPI Class: T05

Manual Codes (EPI/S-X): T05-H02C

Dialog eLink: Order File History 19/5/1 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0012406571 Drawing available WPI Acc no: 2002-350655/200238

Related WPI Acc No: 1999-560197

XRPX Acc No: N2002-275472

Digital content transformation method in consumer electronic device, involves establishing preliminary control channel when exchanged hashed random challenges match expected values

Patent Assignee: AUCSMITH D W (AUCS-I); INTEL CORP (ITLC); TRAW C B S (TRAW-I)

Inventor: AUCSMITH D W: TRAW C B S

		Patent Fa	mily (2 patents, 1 cour	ıtries)		
Patent Number	Kind	Date	Application Number	Kind	Date	Update Type
US 20020007452	A1	20020117	US 1997791245	Α	19970130	200238 B
			US 1997909338	Α	19970811	
US 6542610	В2	20030401	US 1997909338	Α	19970811	200324 E

Priority Applications (no., kind, date); US 1997791245 A 19970130; US 1997909338 A 19970811

US 20020007452 A1 EN 20Patent DetailsP of application US 1997791245

Patent Number | Kind Lan Pgs Draw C-I-P of pateriling Nots5949877

Alerting Abstract US A1

NOVELTY - The random challenges which are exchanged between the two consumer electronic devices, are encrypted with secret key and are hashed. The hashed random challenges are exchanged and are compared with expected value. The digital content is transferred over a preliminary control channel which is established, when hashed random challenge match the expected value.

USE - For transferring digital audio/video content between consumer electronic (CE) devices such as DVD player/recorder, digital television, set-top boxes, digital satellite service receivers as well as applications running on computers through IEEE 1394 bus, Ethernet, asynchronous transfer mode (ATM) network, cable television system, telephony network.

ADVANTAGE - Allows for high level of content protection for consumer electronics equipment and computer systems.

ADVANTAGE - Allows for high level of content protection for consumer electronics equipment and computer systems. DESCRIPTION OF DRAWINGS - The figures show the flow diagram of the authentication and preliminary control channel key generation.

Title Terms /Index Terms/Additional Words: DIGITAL; CONTENT; TRANSFORM; METHOD; CONSUME; ELECTRONIC; DEVICE; ESTABLISH; PRELIMINARY; CONTROL; CHANNEL; EXCHANGE; HASH; RANDOM; MATCH; VALUE

Class Codes

	Internationa	al Paten	t Classific	ation		
IPC	Class Level	Scope	Position	Status	Version Date	
G06F-0001/00	A	N		R	20060101	
G06F-0021/00	A	I		R	20060101	
G11B-0020/00	A	I		R	20060101	Π
H04L-0012/64	A	N		R	20060101	
H04L-0009/32	A	I		R	20060101	M
G06F-0001/00	C	N		R	20060101	
G06F-0021/00	C	I		R	20060101	
G11B-0020/00	C	I		R	20060101	
H04L-0012/64	C	N		R	20060101	m
H04L-0009/32	C	I		R	20060101	

ECLA: G06F-021/00N5A4, G06F-021/00N7D, G11B-020/00P, H04L-009/32T, H04L-012/40F8

ICO: S06F-211:014B

US Classification, Current Main: 713-152000; Secondary: 380-201000, 705-057000

US Classification, Issued: 713152, 380201, 70557, 380262, 380260, 380264, 713168, 713169

File Segment: EPI;

DWPI Class: T01: W01: W02: W03: W04

Manual Codes (EPI/S-X): T01-D01; T01-N02B1B; W01-A05A; W01-A06B5A; W02-F03; W03-A16C3; W04-P01A

Dialog eLink: Order File History 19/5/2 (Item 2 from file: 350) DIALOG(R)File 350: Derwent WPIX (c) 2009 Thomson Reuters. All rights reserved. 0008702847 Drawing available WPI Acc no: 1998-243135/199822 XRPX Acc No: N1998-192458

Encrypted communication system for limiting damage caused by leaked key -distributes pair of keys on sub-group basis to receivers and alternates which key is currently relevant for use, for decrypting received signal Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU); MATSUSHITA ELECTRIC IND CO LTD (MATU); TOSHIBA CORP (TOKE); TOSHIBA KK (TOKE); TOSHIBA MICROELECTRONICS CORP (TOSZ); Toshiba KK (TOKE)

Inventor: ENDO N; ENDOH N; FUKUSHIMA Y; HIRAYAMA K; KATO T; MAKOTO T; TAKEHISA K; TATEBAYASHI M; YOSHIHISA F

		Patent Far	nily (12 patents, 28 co	untries	.)		
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Туре
EP 840476	A2	19980506	EP 1997307629	Α	19970929	199822	В
JP 10210025	Α	19980807	JP 1997296513	Α	19971029	199842	Е
KR 1998033369	Α	19980725	KR 199756940	Α	19971031	199932	Е
TW 370661	Α	19990921	TW 1997115448	Α	19971020	200036	E
US 6151394	Α	20001121	US 1997940052	Α	19970930	200101	Е
CN 1184386	Α	19980610	CN 1997121562	Α	19971030	200254	Е
JP 3526522	B2	20040517	JP 1997296513	Α	19971029	200433	E
KR 426460	В	20040616	KR 199756940	Α	19971031	200468	Е
EP 840476	B1	20050817	EP 1997307629	Α	19970929	200555	Е
DE 69733986	Е	20050922	DE 69733986	Α	19970929	200564	E
			EP 1997307629	Α	19970929		
DE 69733986	T2	20060126	DE 69733986	Α	19970929	200611	E
			EP 1997307629	Α	19970929		
CN 1192544	C	20050309	CN 1997121562	Α	19971030	200634	Е

Priority Applications (no., kind, date); JP 1996290373 A 19961031; EP 1997307629 A 19970929

rnorny Applications (no., kind, date	J. JF 195	02903	/ J / A 1	2201021	, Li 1997307029 A 19970929	
DE 69733986	T2	DE	Pate	nt Detail	Application	EP 1997307629
Patent Number	Kind	Lan	Pgs	Draw	Based on OPI patent Filing No	teEP 840476
EP 840476	A2	EN	20	8		-1
Regional Designated States,Original	AL AT	BECI	IDEI	K ES FI	FR GB GR IE IT LI LT LU L	V MC NL PT RO SE S
JP 10210025	Α	JA	13	8		
KR 1998033369	A	ко		8		
TW 370661	Α	ZH				
JP 3526522	B2	JA	14		Previously issued patent	JP 10210025
KR 426460	В	KO			Previously issued patent	KR 98033369
EP 840476	В1	EN				
Regional Designated States,Original	DE FR	GB		•••••	······	
DE 69733986	Е	DE			Application	EP 1997307629
					Based on OPI patent	EP 840476

Alerting Abstract EP A2

The communication system has a single transmitter sending signals to a number of receiver stations, e.g. encoded cable television signals. The transmissions may be encrypted requiring the receivers to hold a decrypting key. The receivers are arranged in sub-group and each sub-group has a pair of security keys from a larger key set distributed to it.

arrange in surgious and early same good has a pain of seeinty keys from a larger key sectual motion to use the arrange soul has a pain of seeinty keys from a larger key sectual motion to use a test to determine the correct decryption. The relevant key is then used for further decryption. The test algorithm can be distributed in an encrypted form.

ADVANTAGE - Limits damage caused by leaked keys by operating in sub-groups. Improves security levels by using alternating keys.

Title Terms/Index Terms/Additional Words: ENCRYPTION; COMMUNICATE; SYSTEM; LIMIT; DAMAGE; CAUSE; LEAK; KEY; DISTRIBUTE; PAIR; SUB; GROUP; BASIS; RECEIVE; ALTERNATE; CURRENT; RELEVANT; SIGNAL

Class Codes

IPC	Class Level	Scope	Position	Status	Version
					Date
G09C-001/00; H04L-009/00; H04L-009/08		<u></u>	Main	<u></u>	"Version 7"
G06F-0012/14	Α	I	L	R	20061008
G06F-0021/24	Α	I	L	R	20060101
G09C-0001/00	Α	I	L	R	20060101
H04L-0009/08	A	I	F	R	20060101
H04L-0009/08	A	I	F		20060101
H04L-0009/08	A	I		R	20060101
H04L-0009/14	A	I	L	R	20060101
G06F-0012/14	С	I	L	R	20060101
G06F-0021/00	C	I	L	R	20060101
G09C-0001/00	С	I	L	R	20060101
H04L-0009/08	C	I	F	R	20060101
H04L-0009/08	C	I	***************************************	R	20060101
H04L-0009/14	C	I	L	R	20060101

ECLA: H04L-009/08B2

US Classification, Current Main: 380-283000; Secondary: 380-043000, 380-277000, 380-278000 US Classification, Issued: 380283, 380278, 380277, 38043

File Segment: EngPI; EPI; DWPI Class: W01; P85

Manual Codes (EPI/S-X): W01-A05A

B. Patent Files, Full-Text

File 348: EUROPEAN PATENTS 1978-200928

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File 349:PCT FULLTEXT 1979-2009/UB=20090709|UT=20090702

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- Set Items Description
- S1 5922 (CONFIRM??? OR CONFIRMATION OR ACKNOWLEDG??? OR ACKNOWLEDGEMENT OR AFFIRM ??? OR ATTEST ??? OR CERTIFY ??? OR CHECK ??? OR SUBSTANTIAT ??? OR VERIFY ??? OR PROVE? ? OR PROVING OR VALIDAT??? OR VALIDITY OR AUTHENTICITY) (10N) ((PUBLIC OR PRIVATE OR SYSTEM OR SECRET OR SYMMETRIC OR SYNCHRONOUS OR CONTENT OR ASSESS OR DECRYPTION OR ASYMMETRIC OR SYMMETRIC) () KEY? ? OR PKI OR PGP OR WEB() TRUST)
- 1498 S1 (5N) (PLAYER OR PLAYERS OR RECORDER OR RECORDERS OR PLAYBACK OR DEVICE OR DEVICES OR VCR OR VCRS OR DVDR OR DVDRS OR APPARATUS OR DVR OR DIGITAL()VIDEO()RECORDER? ? OR PC OR PCS OR COMPUTER? ? OR DESKTOP? ? OR WORKSTATION? ? OR PROGRAM? ? OR APPLICATION? ? OR MODULE? ?)
- 369803 (USAGE OR USE) (3N) (CONDITION? ? OR TERMS OR RULE? ? OR RESTRICTION? ? OR RIGHTS OR LIMITATION? ?) OR (LIMIT??? OR RESTRICT??? OR SPECIFI?? OR PERMITTED OR FIXED OR DEFINED OR STIPULATED OR PREDEFINED OR PRESET OR PREESTABLISHED OR PREDETERMINED) (3N) (NUMBER OR TIMES OR COPIED OR COPIES OR PLAYED OR DOWNLOAD??) OR AVAILABILITY()DATES OR USAGE()PERIODS
- 97223 (CRYPTOGRA? OR (ELECTRONIC OR DIGITAL) () (SEAL? ? OR SIGNATURE? ? OR CERTIFICAT ??? OR ENVELOPE? ?) OR ENCRYPT ??? OR CIPHER? ? OR CYPHER? ? OR HASH?? OR ENCOD??? OR ENC?PHER??) (10N) (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1 OR MPEG1) () AUDIO () LAYER () 3 OR GAME OR GAMES CD OR CDS OR COMPACT () (DISK? ? OR DISC? ?) OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR AUDIOVISUAL)
- 196876 (UNENCOD??? OR UNCOD??? OR UNENCRYPT??? OR DECRYPT??? OR DECOD??? OR DEC?PHER??? OR KEY OR KEYS) (10N) (MESSAGE? ? OR SIGNAL? ? OR PACKET? ? OR TRANSMISSION? ? OR BLOCK? ? OR INFORMATION OR DATA)
- 351791 (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1 OR MPEG1) () AUDIO () LAYER () 3 OR GAME OR GAMES CD OR CDS OR COMPACT () (DISK? ? OR DISC? ?) OR AUDIOVISUAL OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR PRODUCT OR UNIQUE OR SECURITY OR DIGITAL) (5N) (ID OR IDS OR IDENTIFICATION OR NUMBER? ? OR IDENTIFIER? ?)
- S7 1 AU=(MAARI, K? OR MAARI K? OR MAARI (1N) (K OR KOICHI)) 58 232239 IC=G06F 59 63 S2 (S) S3
- S10 46 S9 (S) (S4 OR S5 OR S6)
- 13 S10 NOT AY>1997 \$11
- S12 13 IDPAT (sorted in duplicate/non-duplicate order)
 13 IDPAT (primary/non-duplicate records only)
- S13
- S14 16 S2 (10N) S3

\$15 12 \$14 NOT \$13 \$16 4 \$15 NOT AY>1997

Dialog eLink: Order File History 13/3k/1 (Item 1 from file: 348) DIALOG(R)File 348: EUROPEAN PATENTS (c) 2009 European Patent Office. All rights reserved.

02059858

Systems and methods for secure transaction management and electronic rights protection System und Verfahren für sichere Transaktionsverwaltung und elektronischen Rechteschutz Systemes et procedes de gestion de transactions securisces et de protection des droits electroniques

Patent Assignee:

Intertrust Technologies Corporation; (7330020)
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 (Applicant designated States; all)

Inventor:

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 5203 Battery Lane; Bethesda, MD 20814; (US)
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 2410 Edwards Avenue: El Cerrito, CA 94530; (US)
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 1250 Lakeside Drive; Sunnyvale, CA 94086; (US)

Legal Representative:

Garner, Jonathan Charles Stapleton et al (9222071)
 FJ Cleveland 40-43 Chancery Lane; London WC2A 1JO; (GB)

	Country	Number	Kind	Date
Patent	EP	1662418	A2	20060531 (Basic)
	EP	1662418	A3	20060726
Application	EP	2006075503		19960213
Priorities	US	388107		19950213

Designated States:

AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT: LI: LU: MC: NL: PT: SE:

Extended Designated States:

AL: LT: LV: SI:

Related Parent Numbers: Patent (Application):EP 861461 (EP 96922371)

International Classification (Version 8) IPC	Level	Value	Position	Status	Version	Action	Source	Office
G06F-0001/00	A	I	F	В	20060101	20060616	Н	EP
Abstract Word Count; 165								
NOTE: 1								
NOTE: Figure number on first page: 1								
Legal Status Type Pub. Date Kind Text								
Language Publication: English								

Procedural: English
Application: English
Fulltext Availability Available Text Language | Update | Word Count

Fulltext Availability Available Tex	t Language	Update	word Count
CLAIMS A	(English)	200622	302
SPEC A	(English)	200622	193789
Total Word Count (Document A) 19	4124		
Total Word Count (Document B) 0			
Total Word Count (All Documents)	194124		

Specification: ...602 provides the following RPC based service providers/requestors (each of which have an RPC interface or "RSI" that communicates with RPC manager 732): SPE device driver 736 (this SPE device driver is connected to an SPE 503 in the preferred embodiment): HPE Device Driver 738 (this HPE device driver is connected to an HPE 738... concurrently executing tasks may not be able to process using the same often-needed data structure in a single-threaded SPE 503. This may effectively limit the number of concurrent tasks to one. Additionally, single-threadedness may elimite the capability of producing accurate summary budgets based on a number of concurrent tasks since.....as the pages are compared and swapped. Even though this virtual paging solution might be workable for allowing single threading in some applications, the vendor limitations mentioned above may limit the use of such single threaded implementations in some cases to dedicated hardware. Any implementation that supports multiple users (e.g., "smart home" set tops, many desk tops and certain PDA applications, etc.) may hit limitations of a sincle threaded device in certain circumstances.

It is preferable when these limitations are unacceptable to use a full "multi-threaded" data structure write capabilities. For example, a type of "two-phase commit" processing of the type used by database vendors may... ...e.g., RTC 528).

In somewhat more detail, the preferred embodiment executes a load module 1100.....store the load module 1100. The load module entoring manager 568 may copy the load module into that memory page, and queue the page for decryption and security checks by encrypt/decrypt manager 556 and key and tag manager 558. Once the page is decrypted and checked, the load module execution manager 568 checks the validation tag and inserts the load module into the list of paged in modules and...registration table 460 records, user/object table 462 records, URI* 464 records, and PIGER 680 records. This "open channel" task may preferably place calls to key and tag manager 558 to validate and correlate the tags associated with these various records to ensure that they are authentic and match. The preferred embodiment process then may write appropriates.

Dialog eLink: Order File History 13/3K/2 (Item 2 from file: 348) DIALOG(R)File 348: EUROPEAN PATENTS (c) 2009 European Patent Office. All rights reserved.

02018194

Secure transaction management Gesicherte Transaktionsverwaltung Gestion de transactions securisees

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	Country	Number	Kind	Date	
Patent	EP	1621960	A2	20060201	(Basic)
	EP	1621960	A3	20070110	
Application	EP	2005076129		19970829	
Priorities	US	706206		19960830	

Designated States:

AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; LU; MC; NL; PT; SE;

Related Parent Numbers: Patent (Application): EP 922248 (EP 97939670)

International Classification (Version 8) IPC	Level	Value	Position	Status	Version	Action	Source	Office
G06F-0021/00	Α	I	F	В	20060101	20060913	H	EP

Abstract Word Count: 51

NOTE: 70

NOTE: Figure number on first page: 70

Legal Status Type Pub. Date Kind Text

Language Publication: English Procedural: English

Application: English

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS A	(English)	200605	249
SPEC A	(English)	200605	180527
Total Word Count (Document A) 180	807		
Total Word Count (Document B) 0			
Total Word Count (All Documents) 13	80807		

Specification: ...a secure, flexible, general purpose foundation that can accommodate many different rights applications, that is, many different business models and their respective participant requirements.

A rights application under VDE is made up of special purpose pieces, each of which can correspond to one or more basic electronic processes needed for a...evolving agreement may develop between all value chain participants as content control information passes along its chain of handling. This evolving agreement can establish the rights of all parties to content usage information, including, for example, the nature of information to be received by each party and the pathway of handling... This provides a received by each party and the pathway of handling... The present invention is the core secure transaction control arrangement, herein called an SPU or SPUs), that typically must be present in each user's computer, other electronic appliance, or network. SPUs provide a trusted environment for generating decryption keys, encrypting and decrypting information, managing the secure communication of keys and other information between electronic appliances (i.e. between VDE installations and/or between plural...the request, or how the service request will be fulfilled. This feature supports families of services that may be scaled and/or customized for specific applications. Service requests can be forwarded and serviced by different processors and/or direct sites as easily as they can be forwarded and serviced by a...concurrently executing tasks may not be able to process using the same often-needed data structure in a single-threaded SPE 503. This may effectively limit the number of concurrent tasks to one. Additionally, single-threadedoness may eliminate the capability of producing accurate summary budgets bor on a number of concurrent tasks since......tops, many desk tops and certain PDA applications, etc.) may hit limitations of a single threaded device in certain circumstances.

It is preferable when these **limitations** are unacceptable to use a full "multi-threaded" data structure write capabilities. For example, a type of "two-phase commit" processing of the type used by database vendors may.....e.g., RTC 528).

Memory manager 578 is responsible for allocating and deallocating memory; supervising sharing of memory resources between processes and enforcing memory accessives restriction. The SPE kernel/dispatcher memory manager 578 typically initially allocates all memory to kernel 552, and may be configured to permit only process-level access.....may be represented using a bit map allocation vector. for example, In a memory block, a group of configuous memory pages may start at a specific page number. The size of the block is measured by the number of memory pages it spans. Memory allocation may be recorded by setting/clearing the appropriate..SPU 500 is not being paused or probed, and other internal checks on the operation of SPU 500 are made to detect tampering.

The encryption/decryption engine 522 generates an interrupt when a block of data has been processed. The kernel interrupt handler 584 adjusts the processing status of the block-being encrypted or decrypted, and passes the block to the next stage of processing. The next block scheduled for the encryption service then has its key moved into the encrypt/decrypt engine 522...

Dialog eLink: Order File History 13/3K/6 (Item 6 from file: 348) DIALOG(R)File 348: EUROPEAN PATENTS (c) 2009 European Patent Office. All rights reserved.

01815760

Optical disk, method of manufacturing an optical disk and a reproduction apparatus Optische Platte, Verfahren zur Herstellung einer optischen Platte und Wiedergabegerat Disque optique, methode de fabrication d'un disque optique et methode de reproduction

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	Country	Number	Kind	Date
Patent	EP	1480204	A1	20041124 (Basic)
	EP	1480204	В1	20070926
Application	EP	2004020082		19951116
Priorities	JP	94283415	Ĭ	19941117
	JР	9516153		19950202
	JP	95261247	[19951009

Designated States:

DE; FR; GB;

Related Parent Numbers: Patent (Application):EP 1120777 (EP 2001108949)

Related Divisions: Patent (Application):EP 1764782 (EP 2006027091)

International Patent Class (V7); G11B-007/00; G11B-020/10; G11B-023/30; G11B-013/04; G11B-019/06; G11B-007/09; G11B-020/00; G06F-001/00; G11B-019/12; G11B-007/24; G11B-007/26

International Classification (Version 8) IPC	Level	Value	Position	Status	Version	Action	Source	Office
G11B-0007/00	A	I	F	В	20060101	20040930	Н	EP
G11B-0020/10	A	I	L	В	20060101	20040930	Н	EP
G11B-0023/30	A	I	L	В	20060101	20040930	Н	EP
G11B-0013/04	Α	I	L	В	20060101	20040930	Н	EP
G11B-0019/06	A	I	L	В	20060101	20040930	Н	EP
G11B-0007/09	A	I	L	В	20060101	20040930	Н	EP
G11B-0020/00	A	Ι	L	В	20060101	20040930	Н	EP
G06F-0001/00	A	I	L	В	20060101	20040930	Н	EP
G11B-0019/12	A	I	L	В	20060101	20040930	Н	EP
G11B-0007/24	A	Ι	L	В	20060101	20040930	H	EP
G11B-0007/26	A	I	L	В	20060101	20040930	Н	EP

Abstract Word Count: 78

NOTE: 1

NOTE: Figure number on first page: 1

Legal Status Type Pub. Date Kind Text

Language Publication:EnglishProcedural:EnglishApplication:English

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS A	(English)	200448	251
SPEC A	(English)	200448	21512
CLAIMS B	(English)	200739	297

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS B	(German)	200739	286
CLAIMS B	(French)	200739	334
SPEC B	(English)	200739	21116
Total Word Count (Document A) 217	66		
Total Word Count (Document B) 220	33		
Total Word Count (All Documents) 4	3799		

Specification: ...be kept in the safe custody of the software maker. This greatly increases the security of encryption. (2) (A) Encryption (digital signature) of marking position information, etc. and decryption and reproduction of optical disk position information, etc., which have been briefly described in (1), will now be described in more detail. (B) Various mechanism for piracy prevention will also be described.....measured at the optical disk maker, step 695 where the position information is encrypted (or a digital signature is appended), step 698 where the position information is decrypted (or the signature is verified or authenticated) in the reproduction apparatus, and step 735w where a check is made to determine whether the disk is... ...then compressed in step 735d, and the compressed position information H is obtained in step 735e. In step 695, the ciphertext of the compressed position information H is constructed. First, in step 695, a secret key, d. of 512 or 1024 bits, and secret keys, p and q, of 256 or 512 bits, are set, and in step 695b, encryption is... ...actually located in the position on the optical disk indicated by the position information. In step 736d, it is checked whether the difference between the decrypted position information and the actually measured position information falls within a tolerance. If the check is OK in step 736e, the process proceeds to step 736h to output software or data or execute... ...process from step 735a to step 735e is the same was that for the RSA function. In step 735f, authentication ciphertext for the compressed position information H is constructed. First, in step 735g, secret keys X (128 bits or over) and K are set, and in step 735h, a public system parameter G, a point on an ellipse, is determined reduce the time before the reproduction starts. This system therefore is suitable for application to consumer reproduction apparatus (b) Complex encryption (digital signature) using master key, subkey, etc. Not only the marking position information but information concerning the features of contents of the software stored on the optical disk and an anti-piracy identifier are subjected to encryption (digital signature). Furthermore, two kinds of encryption keys, master key and subkey, are used. A specific example is described below in which a secret key encryption... ...software maker 9002, to be described later, via a communication line 9003. When a request for encryption is made from the software maker 9002, the key management center 9001 receives data, to be encrypted, via a network 9003 and encrypts the data using the master secret key. For simplicity of explanation, it is assumed here that the software maker 9002 also includes a disk manufacturing factory. Therefore, the software maker 9002 here.....manufacturing process at the disk manufacturing factory illustrated in Figure 1, in addition to the production of software. That is, when manufacturing optical disks of movie software, encryption for prevention of illegal duplications is also performed. To accomplish the encryption, the software maker 9002 obtains an exclusive sub secret key from the key... ...performed using a sub public key corresponding to the sub secret key to be used in the second encryption step, and using a software feature information and anti-piracy identifier. The information is transferred to the key management center 9001 via the communication line 9003. The software feature information refers to the information describing the contents of the movie software written on... ...piracy prevention using second ciphertext is "1"; otherwise, the identifier is "0". In this example, the identifier is "1", needless to say. (1-2) The key management center 9001 encrypts the information transferred from the software maker 9002, by using the master secret key maintained at the center, and sends the encrypted information back to the software maker 9002. The thus created ciphertext is referred to as the first ciphertext. (1-3) The software maker 9002 records the... ...form a marking on each optical disk. (1-6) Further, the software maker 9002 detects the position of the marking and encrypts the obtained position information by using the sub-secret key maintained at the maker. The thus encrypted information is referred to as the second ciphertext. Since it is created by encrypting the position information, the second ciphertext is different from one optical disk.....the optical disk, and using the master public key stored in the ROM, decrypts the first ciphertext which contains in encrypted form the sub public key corresponding to the sub secret key, the software feature information, and the anti-piracy identifier (2-2) In the meantime, the player 9004 extracted the software feature information from the contents of the movie software recorded on the optical disk. The extracted software feature information is compared with the software feature information obtained by decryption in (2-1); if they do not agree, the optical disk is judged as being an illegally duplicated one, and the subsequent reproduction operation is... ...to make an illegal copy by altering the identifier to "0", his effort will be thwarted because the identifier is encrypted using the master secret' key after being combined with the software feature information, etc., as earlier described. (2-4) First, the second ciphertext recorded on the optical disk is read out. Then, the second ciphertext, which is the encrypted version of the position information, is decrypted using the sub public key obtained by

decryption in (2-1). (2-5) Using the decrypted position information, it is checked whether the marking is actually formed in the position on the optical disk indicated by the position information. Then, the actually measured marking position information is compared with the position information decrypted in (2-4). If they do not agree, the optical disk is judged as being an illegally duplicated one, and the reproduction operation is stopped.....a Galois field, etc., and a one-direction hash function 864a such as SHA and MD5, to create software feature information 863. The software feature information 863 is then combined with a sub public key 861 special to the software maker and an anti-piracy identifier 865 as a copyright identifier, into one data block which is then encrypted in... ...and a flag of one bit to indicate whether software dubbing is prevented or not. Since the anti-piracy identifier 865 and the sub public key 861 are combined with the software feature information 863 unique to the software and are encrypted together by using the master secret key for public key encryption, it is not possible to alter them. The anti-piracy identifier 865 and the sub public key 861 are combined with the software feature information unique to the software, into one data block which is then encrypted by the secret key. If the software feature information 863 consists of 256 bits, there are 2256 possible variations. This means that when software feature information is extracted from data obtained by authoring a not is therefore important. In the present invention, the antipiracy identifier 865, including the anti-piracy identifier, is encrypted together with the software feature information by using a secret key, and recorded in a ciphertext recording section on the master disk. The reproduction apparatus decrypts the ciphertext with a prescribed public key. This prevents illegal alterations from being made to either data. The only way left to pirates is to replace the whole portion of the first ciphertext, which contains the software feature information 863 and the... ...the latter as the second software feature information. Both kinds of information are the same in that they relate to the contents of the same movie software, but different in that the former is written in encrypted form at the time the optical disk is manufactured, while the latter is extracted by examining the contents of the actually recorded movie software at.....with which the company maintains the security of its software on its own responsibility. As already described with reference to Figure 32, the software feature information and the sub public key the software company keeps are jointly encrypted, using the master secret key, into the first ciphertext. The reproduction apparatus decrypts the first ciphertext by applying.....key on software locked or unlocked at their option. This in turn means that pirates cannot produce pirated disks unless they steal the sub secret key information unique to the software from the software maker. In Figure 32, the software maker combines disk physical position information 868 and disk ID 869, and... ... In Figure 36, the software company 871a first sets its own sub secret key 876, and computes the sub public key 861. The sub public key 861 is combined with the software feature information 861 of the software to be recorded, and transmitted to the key issuing center 872 via a network such as the Internet. The kev issuing center 872 encrypts the combined signal with the master secret kev 866a and sends back the encrypted master public key 858 to the software company. The software company combines it with the software, and ends the combined... ...the disk 800 is produced. Referring next to Figure 37, the software company 871b forms a marking on the disk 800, reads the marking position information, encrypts the position information with the sub secret key 876 corresponding to the sub public key, and, using a pulsed laser 813, records the encrypted information on the disk 800b in the form of a barcode. A detailed description of the recording operation has already be given and will not be... ...reproduction apparatus in step 876c, the first ciphertext is decrypted into plaintext in step 876b. In step 876d, the plaintext of the first software feature information 863 and sub public key 861 is obtained and in step 876f, it is checked against the second software feature information extracted using the one-direction hash function. If the... ... is stopped; if the check is OK, the sub public key is output in step 876h. If alterations have been made to the sub public key or software attributes by a pirate, the two kinds of information do not agree, so that the reproduction of an illegal disk is prevented. The legitimate sub public key is thus obtained at the reproduction apparatus. In the disk check step 875, the sub public key is input in step 876k, and the second ciphertext, i.e., the public key cipher 859 (see Figure 32), is reproduce in step 876m. In step 876m, the second ciphertext is decrypted into plaintext by using the sub public key, and in step 876p, the marking position information is obtained. In this case, the marking position information cannot be altered illegally unless the sub secret key 876 (see Figure 32) corresponding to the sub public key is leaked out. In step 876p, the actual position of the marking formed on the...first feature of the encryption system of the present invention is the use of two encryption functions, a public key encryption function and a secret key encryption function, when encrypting marking position information, etc. on each optical disk. The following description deals with problems encountered when actually implementing a piracy prevention method that uses public key cipher, and also deals with a method of implementation. The public key cipher here refers to the position information encrypted using a public key encryption function (for example, an RSA function). From the security point of view, it is desirable that all reproduction apparatus be equipped with a public... ... few minutes to process the public key. This means that the user has to wait a few minutes before an image is reproduced from a DVD. This poses a problem in employing the public key cipher system in consumer product. Since, at the present level, public key cipher cannot be processed by the CPU used in consumer products, for the present... ...for consumer reproduction apparatus because it requires a small amount of processing time. However, in the case of secret key cipher, since the secret encryption key can be easily deciphered from cipher decoder information, the secret key cipher will lose its anti-piracy effect once deciphered. Therefore, transferring to public key cipher which is difficult to decipher is imperative in the future.....later with reference to Figure 29. First, when

reproducing the optical disk of Figure 39 on a first-generation reproduction apparatus equipped with a secret key cipher decoder 881, the first physical feature information (corresponding to the encrypted version of the position information) unique to the legitimate disk is read from the secret key cipher recording portion 879 on the disk, and decrypted by the secret key cipher decoder 881 into plaintext. Further, the second physical feature information (corresponding to the measured position information) of the disk is measured, and the two kinds of physical information are compared. In the case of a... ...pirate, as earlier described, the pirate can produce illegal disks in large quantities by illegally creating the secret key cipher. In that case, since the secret key decoder 881 in the first-generation reproduction apparatus checks only the secret key cipher, the comparison checks OK as shown in step 878d, allowing the illegal pirated disk to be reproduced. However, by that time in the future, second-generation reproduction apparatus.....on the second-generation reproduction apparatus, as shown in step 878b. On the other hand, when a pirated disk is inserted for reproduction, the reproduction apparatus checks only the public key cipher, as shown in step 878e, whether the secret key cipher is deciphered or not. As a result, the antipiracy function of the public.....piracy prevention method at the master disk level that uses the physical feature information of the master disk as shown in Figure 13. The above-illustrated example has the feature that, when performing encryption. the same information is encrypted by using a public key encryption function and a secret key encryption function separately, and the respectively encrypted versions of the information are recorded on the disk. Accordingly, when a transition is made in future from the current player equipped with a decoder, based on an 8.....can be used effectively on either type of player. (B) Other mechanisms will be described, (a) We will describe another specific example of the public key/secret key combination type in which the software feature information, ID number, and marking position information are encrypted (see Figure 29). The ID number refers to the number assigned to each disk for identifying the... ...sub secret key, while in the present example, encryption is performed only with master secret key without using a key corresponding to the sub secret key. More specifically, as shown in Figure 29, the above combined signal is encoded in a secret key encryption section 832 by using a secret key 834 for secret key encryption. The same combined signal is also encoded in a public key encryption section 831 by using a secret key 833 for public key encryption. In this way, public key cipher is used in conjunction with secret... ... 546 has already been described with reference to Figure 14, and therefore, explanation will not be repeated here. In the encryption section 830, the combined signal of the physical feature information is encoded in the public key encryption section 831, such as RSA, by using the secret key 833 for public key encryption. The above public key cipher and the secret key.....to provide error correction of errors in the barcode recorded data of the invention against a disk scratch that may be caused in the worst condition in consumer use. The principle of the pulse width modulation method will be described with reference to the same figure. This-method eliminates the need for the first ciphertext by the master secret key and the second ciphertext by the sub-secret key. In this method, the software feature information, the position information, and the ID number are combined together for encryption. Billions of ROM disks are produced annually. Therefore, there is a possibility that a disk that... ...tertiary-record by the HMST method. As shown in Figure 35, in process (2), the software maker may produce a disk 844b on which the ID number unique to the disk and a private key used for secret communication with a user are recorded. The disk 844c, 844d can be reproduced without requiring... ...video signal or the like is recorded on a disk 844e. A brief operational description of MPEG scrambling will be given below. An MPEG compressed video signal is split between a variable-length encoder for AC components and a fixed-length encoder, each containing a random number adder, for scrambling. In the present invention, a descrambling signal is encrypted by an encryption encoder using a one-direction function. Further, a portion of a compression program in an image compression controller is compressed by the encryption encoder. This makes it difficult for a replicating company to exchange the encryption encoder with an illegal one. Accordingly, only legitimate disks are decrypted with sub... ... That is, in process (4) of Figure 35, using a master secret key the software company encrypts the disk ID number and a sub public key for decoding the descrambling signal, and secondary-records the encrypted text by barcode on the disk, thus completing the disk 844f. Since the disk 844f are scrambled, the disk cannot...

Dialog eLink: Order File History 16/3k/3 (Item 3 from file: 348) DIALOG(R)File 348: EUROPEAN PATENTS (c) 2009 European Patent Office. All rights reserved.

00935970

A SYSTEM AND METHOD FOR LOADING APPLICATIONS ONTO A SMART CARD

SYSTEM UND VERFAHREN ZUM LADEN VON MEHRFACHEN ANWENDUNGEN IN EINE CHIPKARTE SYSTEME ET PROCEDE POUR CHARGER DES APPLICATIONS DANS UNE CARTE A PUCE

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	Country	Number	Kind	Date		
Patent	EP	858644	A1	19980819	(Basic)	
	EP	858644	В1	20030326		
	WO	98009257		19980305		
Application	EP	97937756		19970829		
	wo	97IB1042		19970829		
Priorities	US	706396		19960830		

Designated States:

AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE;

International Patent Class (V7): G07F-007/10 NOTE: No A-document published by EPO

Legal Status Type Pub, Date Kind Text

Language Publication: English

Procedural: English Application: English

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS B	(English)	200313	689
CLAIMS B	(German)	200313	670
CLAIMS B	(French)	200313	796
SPEC B	(English)	200313	5722

Fulltext Availability Available Text [Language | Update | Word Count Total Word Count (Document B) 7877 Total Word Count (All Documents) 7877

Specification: ...making any change in the use rights of an application stored in the smart card, and may prevent unwanted or illegal attempts to decrease the use rights of an application. This authentication and validation may be conducted using cryptographic systems, such as public key encryption, or any other

IV. Text Search Results from Dialog

A. NPL Files, Abstract

- File 35:Dissertation Abs Online 1861-2009/Jun
 (c) 2009 ProQuest Info6Learning
 File 474:New York Times Abs 1969-2009/Jul 13
 (c) 2009 The New York Times
 File 475:Wall Street Journal Abs 1973-2009/Jul 13
 (c) 2009 The New York Times
 File 583:Gale Group Globalbase (TM) 1986-2002/Dec 13
 (c) 2002 Gale/Cengage
 File 65:Inside Conferences 1993-2009/Jul 13
 (c) 2009 BLDSC all rts. reserv.
 File 99:Wilson Appl. Sci & Tech Abs 1983-2009/Jun
 (c) 2009 The HW Wilson Co.
 File 2:INSPEC 1898-2009/Jul W1
 (c) 2009 The IET
- File 256:TecTrends 1982-2009/Jul (c)2009 Info.Sources Inc.All rights reserved
- Set Items Description
- \$1 840 (CONFIRM??? OR CONFIRMATION OR ACKNOWLEDGE??? OR ACKNOWLEDGEMENT OR AFFIRM??? OR ATTEST??? OR CERTIFY??? OR CHECK??? OR SUBSTANTIAT??? OR VERIFY??? OR PROVE? ? OR PROVING OR VALIDAT??? OR VALIDITY OR AUTHENTICITY) (10N) ((PUBLIC OR PRIVATE OR SYSTEM OR SECRET OR SYMMETRIC) OR SYNCHRONOUS OR CONTENT OR ASSESS OR DECRYPTION OR ASYMMETRIC OR SYMMETRIC) (NEEY? ? OR PKI OR PGP OR WEB()TRUST)
- S2 48 S1 (5N) (PLAYER OR PLAYERS OR RECORDER OR RECORDERS OR PLAYEACK OR DEVICE OR DEVICES OR VCR OR VCRS OR DVDR OR DVDRS OR APPARATUS OR DVR OR DIGITAL()VIDEO()RECORDER? ? OR PC OR PCS OR COMPUTER? ? OR DESKTOP? ? OR WORKSTATION? ? OR PROGRAM? ? OR APPLICATION? ? OR MODULE? ?)
- S3 83224 (USAGE OR USE) (3N) (CONDITION? ? OR TERMS OR RULE? ? OR RESTRICTION? ? OR RIGHTS OR LIMITATION? ?) OR (LIMIT?? OR RESTRICT??? OR SPECIFI?? OR PERMITTED OR FIXED OR DEFINED OR STIPULATED OR PREDETINED OR PREDET OR PREDETERMINED) (3N) (NUMBER OR TIMES OR COPIED OR COPIES OR PLAYED OR DOWNLOAD??) OR AVAILABLILITY()DATES OR USAGE()PERIODS
- S4 28165 (CRYPTOGRA? OR (ELECTRONIC OR DIGITAL)()(SEAL? ? OR SIGNATURE? ? OR CERTIFICAT??? OR ENVELOPE? ?) OR EMCRYPT??? OR CIPHER? ? OR CYPHER? ? OR CHASH?? OR ENCOP??? OR ENCOPPER??) (10N) (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPHO OR PHOTOGRAPHO OR PHOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR HOTOGRAPHO OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1 OR MPGG)) ()AUDIO()LAYER()3 OR GAMES OR AUDIOVISUAL)
- S5 73946 (UNENCOD??? OR UNCOD??? OR UNENCRYPT??? OR DECRYPT??? OR DECOP???
 OR DEC?PHER??? OR KEY OR KEYS) (10N) (MESSAGE? ? OR SIGNAL? ? OR PACKET? ? OR
 TRANSMISSION? ? OR BLOCK? ? OR INFORMATION OR DATA

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(CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR
ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR
PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR
ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1 OR
MPEG1)()AUDIO()LAYER()3 OR GAME OR GAMES CD OR CDS OR COMPACT()(DISK? ? OR DISC? ?)
OR AUDIOVISUAL OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR PRODUCT OR UNIQUE OR
SECURITY OR DIGITAL) (5N) (ID OR IDS OR IDENTIFICATION OR NUMBER? ? OR IDENTIFIER?
S7
               AU=(MAARI, K? OR MAARI K? OR MAARI (1N) (K OR KOICHI))
S8
            0
                S2 AND S3
59
           21
               S2 AND (S3 OR S4 OR S5 OR S6)
$10
            6
                S9 NOT PY>1997
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S11
               RD (unique items)
$12
                S1 AND S3
                S12 NOT S11
S13
           11
S14
           1
               S13 NOT PY>1997
S15
          239
                S3 AND S4
$16
                S15 AND S5
           31
$17
           2
               $16 AND $6
S18
           42
                S2 NOT (S11 OR S14 OR S17)
S19
                S18 NOT PY>1997
S20
           7
               RD (unique items)
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S7 AND (S1 OR S2 OR S3 OR S4 OR S5 OR S6)

Dialog eLink: USPIG Fall Text Remesed Outlon-

11/5/1 (Item 1 from file: 2) DIALOG(R)File 2: INSPEC

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06792777

521

Title: Another countermeasure to forgeries over message recovery signature

Author(s): Miyaji, A.

Author Affiliation: Matsushita Electr. Ind. Co. Ltd., Kadoma, Japan

Journal: IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, vol.E80-A, no.11

, pp.2192-200

Publisher: Inst. Electron. Inf. & Commun. Eng

Country of Publication: Japan Publication Date: Nov. 1997

ISSN: 0916-8508

SICI: 0916-8508(199711)E80A:11L.2192:ACFO;1-Q

CODEN: IFESEX Language: English

Document Type: Journal Paper (JP)

Treatment: Theoretical or Mathematical (T)

Abstract: Nyberg and Rueppel (1993) recently proposed a new ElGamal-type digital signature scheme with message recovery feature and its six variants. The advantage of small signed message length is effective especially in some applications like public key certifying protocols or the key exchange. But two forgeries that present a real threat over such applications are pointed out. In certifying public keys or key exchanges, redundancy is not preferable in order to store or transfer small data. Therefore the current systems should be modified in order to integrate the Nyberg-Rueppel's signature into such applications. However, there has not been such a research that prevents the forgeries directly by improving the signature scheme. In this paper, we investigate a condition to avoid the forgeries directly. We also show some new message recovery signatures strong against the forgeries by adding a negligible computation amount to their signatures, while not

increasing the signature size. The new scheme can be integrated into the above application without modifying the current systems, while maintaining the security (16 refs.)

Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

Descriptors: protocols; public key cryptography

Identifiers: forgery countermeasure; message recovery signature; ElGamal-type digital signature scheme; small signed

message length; public key certifying protocols; key exchange; data security

Classification Codes: B6120B (Codes); B6150M (Protocols); C6130S (Data security); C5640 (Protocols)

INSPEC Update Issue: 1998-001

Copyright: 1998, IEE

11/5/2 (Item 2 from file: 2) DIALOG(R)File 2: INSPEC (c) 2009 The IET. All rights reserved.

06039183

Title: A digital signature scheme based on linear error-correcting block codes

Author(s): Alabbadi, M.; Wicker, S.B.

Author Affiliation: KACST, Rivadh, Saudi Arabia

Book Title: Advances in Cryptology - ASIACRYPT'94. 4th International Conference on the Theory and Applications of

Cryptology, Proceedings Inclusive Page Numbers: 238-48 Publisher: Springer-Verlag, Berlin

Country of Publication: Germany Publication Date: 1995

Conference Title: Advances in Cryptology - ASIACRYPT '94. 4th International Conference on the Theory and

Applications of Cryptology

Conference Date: 28 Nov.-1 Dec. 1994

Conference Location: Wollongong, NSW, Australia

Conference Sponsor: Univ. Wollongong Editor(s): Pieprzyk, J.; Safavi-Naini, R.

ISBN: 3 540 59339 X Number of Pages: xii+430

Language: English

Document Type: Conference Paper (PA)

Treatment: Theoretical or Mathematical (T)

Abstract: A true trapdoor digital signature scheme is presented. The scheme uses linear error-correcting block codes in a manner similar to that of the McEliece public-key cryptosystem, the Rao-Nam private-key cryptosystem, and the three digital signature schemes proposed by Xinmei (1990), Harn and Wang (1992), and the authors. All these digital signature schemes have been shown to be susceptible to a number of attacks. The signature scheme described in this paper derives its security from the complexity of three problems: the decoding of general linear error-correcting block codes, the factoring of large matrices, and the derivation of a matrix from its right inverse. It is shown that the proposed scheme is resistant to the attacks that proved successful when used against the aforementioned digital signature schemes as well as other attacks. The required public key storage is about 3n² bits. The complexity of the signature generation and validation algorithms are O(n²) and O(nk) bit operations respectively, thus making the scheme amenable to use in high data rate applications (14 refs.)

Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

Descriptors: block codes; computational complexity; data communication; error correction codes; linear codes; matrix

inversion; public key cryptography

Identifiers: digital signature scheme; linear error-correcting block codes; trapdoor digital signature scheme; public key storage; signature generation complexity; validation algorithms; high data rate applications; matrix derivation Classification Codes: B6120B (Codes): B0210 (Algebra): C6130S (Data security): C1110 (Algebra): C4240C

(Computational complexity)

INSPEC Update Issue: 1995-034

Copyright: 1995, IEE

Dialog cLink: USPTO Full Text Retrieval Options

11/5/3 (Item 3 from file: 2) DIALOG(R)File 2: INSPEC (c) 2009 The IET. All rights reserved.

05726851

Title: Private-key encryption based on concatenation of codes

Author(s); Al Jabri, A.Kh.; Al-Thukair, F.; Mirza, A.

Author Affiliation: Dept. of Electr. Eng., King Saud Univ., Riyadh, Saudi Arabia

Journal: IEE Proceedings-Communications, vol.141, no.3, pp.105-10

Country of Publication: UK Publication Date: June 1994 ISSN: 1350-2425

ISSN: 1350-2425 CODEN: IPCOED

U.S. Copyright Clearance Center Code: 1350-2425/94/\$7.50+0.00

Item Identifier (DOI): 10.1049/ip-com:19941137

Language: English

Document Type: Journal Paper (JP)

Treatment: Theoretical or Mathematical (T)

Abstract: Public-key algebraic encryption (PUAE) has certain advantages that make it attractive in some applications. Variants of PUAE for private-key algebraic encryption (PRAE); have been proposed subsequently. PRAE is proven to be insecure under chosen plaintex tatack. In the paper, some invariants of PRAE are studied, and a private-key reprosystem based on concatenation of codes is proposed and analysed. The new system is, composed of short-length codes and is designed to avoid the weaknesses in other PRAE systems. The system looks secure against known attacks. Some methods to improve the system information rate and security are also successed (11 per system) information rate and security are also successed (11 per system).

Subfile(s): B (Electrical & Electronic Engineering)

Descriptors: codes; public key cryptography

Identifiers: private-key encryption; public-key algebraic encryption; plaintext attack; private-key cryptosystem; codes

concatenation; short-length codes; system information rate; system security

Classification Codes: B6120B (Codes) INSPEC Update Issue: 1994-030

Copyright: 1994, IEE

Dialog cLink: USPTO Full Text Retrieval Online

11/5/4 (Item 4 from file: 2) DIALOG(R)File 2: INSPEC

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05500189

Title: Immunizing public key cryptosystems against chosen ciphertext attacks

Author(s): Zheng, Y.; Seberry, J.

Author Affiliation: Dept. of Comput. Sci., Wollongong Univ., NSW, Australia

Journal: IEEE Journal on Selected Areas in Communications , vol.11 , no.5 , pp.715-24

Country of Publication: USA Publication Date: June 1993 ISSN: 0733-8716

CODEN: ISACEM U.S. Copyright Clearance Center Code: 0733-8716/93/\$03.00 Item Identifier (DOI): 10.1109/49.223871

Language: English

Document Type: Journal Paper (JP)

Treatment: Theoretical or Mathematical (T)

Abstract: Three methods for strengthening public key cryptosystems in such a way that they become secure against adaptively chosen ciphertext attacks are presented. In an adaptively chosen ciphertext attack, an attacker can query the deciphering algorithm with any ciphertext except for the exact object ciphertext to be cryptanalyzed. The first strengthening method is based on the use of one-way hash functions, the second on the use of universal hash functions, and the third on the use of digital signature schemes. Each method is illustrated by an example of a public key cryptosystem based on the intractability of computing discrete logarithms in finite fields. Security of the three example cryptosystems is formally proved. Two other issues, namely, applications of the methods to public key cryptosystems based on other intractable problems and enhancement of information authentication capability to the cryptosystems, are also discussed (28 refs.)

Subfile(s): B (Electrical & Electronic Engineering)

Descriptors: message authentication; public key cryptography

Identifiers: immunization methods; public key cryptosystems; ciphertext attacks; deciphering algorithm; strengthening method; one-way hash functions; universal hash functions; digital signature; discrete logarithms; information authentication

Classification Codes: B6120B (Codes) INSPEC Update Issue: 1993-040

Copyright: 1993, IEE

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04287318

Title: A stitch in crime.... smart card security solutions

Author(s): Fifield, K.J.; Gordon, J.

Author Affiliation: Fraser Williams, London, UK

Inclusive Page Numbers: 10 pp.

Publisher: PLF Commun, Peterborough

Country of Publication: UK Publication Date: 1988

Conference Title: SMART CARD '88: International Conference and Workshop on Smart Card Applications and

Technologies

Conference Date: 20-22 June 1988 Conference Location: London, UK Number of Pages: 3 vol. (222+174+44)

Language: English

Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Outlines the various areas of computer network vulnerability and the smart card techniques used to make the system secure. This includes personal authentication and data validation using private or public key schemes. A DES based system is described together with a review of the advantages and disadvantages. The weaknesses of such a private key system are highlighted and the more secure public key RSA system is explained. The disadvantages of implementation into a smart card are mentioned, and why the search for an implementable public key system is a high priority. Present development effort shows that the Fiat-Shamir technique can fit the bill. It is implementable for an 8-bit smart card processor and takes 5-10% of the time of the RSA algorithm. The technique is described and the mathematical reasons why it is faster, and as secure, as RSA pointed out. Application examples are given together with FW project experience to date. The resulting solution shows that smart cards can provide a very high level of computer system protection. Password hacking can be radically reduced by the Fiat-Shamir smart card solution together with line tapping, line diversion and unauthorised program modification. It can also prove that a user is who he says he is without knowing the process that generates the initial challenge. This is a substantial step forward in providing a means to legally resolve any dispute of authentication be it personal or data, with a smart card (1 refs.)

Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

Descriptors: computer crime; computer networks; cryptography; smart cards

Identifiers: password hacking; crime; smart card security solutions; computer network vulnerability; personal authentication; data validation; public key schemes; DES based system; private key system; Fiat-Shamir technique; 8-bit smart card processor: RSA algorithm: FW project; computer system projection; line tapping; line diversion; unauthorised program modification

Classification Codes: B6120B (Codes); B6210L (Computer communications); C6130 (Data handling techniques); C0310D

(Computer installation management); C5620 (Computer networks and techniques)

INSPEC Update Issue: 1989-003

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14/5/1 (Item 1 from file: 35)

DIALOG(R)File 35: Dissertation Abs Online

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01608996 ORDER NO: NOT AVAILABLE FROM UNIVERSITY MICROFILMS INT'L.

ON THE SECURITY OF CRYPTOGRAPHIC ALGORITHMS (PSEUDORANDOM, SUPERPOLYNOMIAL)

Author: COLBERT, BERNARD

Degree: PH.D.

Year: 1997

Corporate Source/Institution: UNIVERSITY OF NEW SOUTH WALES (AUSTRALIA) (0423)

Source: Volume 5809B of Dissertations Abstracts International.

Descriptors: MATHEMATICS : COMPUTER SCIENCE

Descriptor Codes: 0405; 0984

In this thesis we consider the provability of the security of cryptographic algorithms--that is, proving that a particular cryptographic algorithm is immune to cryptanalytic attacks. To this end, we formalise cryptanalytic attacks and the criteria for "breaking" the cryptographic algorithm. This formal model is used to show that if an algorithm exists that determines if an efficient attack against the cryptographic algorithm exists, then a feasible universal cryptanalytic attack exists. However, we demonstrate that a feasible universal cryptanalytic attack does not exist; and thus, conclude that there is no algorithm that determines the immunity of cryptographic algorithms to attacks.

Our consideration turns to other methods of demonstrating the security of cryptographic algorithms; we consider families of cryptographic algorithms indexed by block size: these are known as cryptosystems. Algorithms derived from pseudorandom cryptosystems have strong cryptographic properties, in particular, resilience against attack. We find some sufficient conditions for pseudorandom cryptosystems and conclude that they are infeasible. We then determine a necessary condition for pseudorandom cryptosystems; that the keyspaces \$\{ K\sb{n}\}\sb{n\varepsilon\rm N}\$ must grow as \$\vert K\sb{n}\vert \\geq\\xi (n)2\sp{n}\\$ for a superpolynomial function \$\xi\\$. We analyse public-key cryptosystems and conclude that proving pseudorandomness for feasible cryptosystem requires complexity assumptions.

We consider the design of cryptographic algorithms that are apparently strong but are vulnerable to a specific, secret attack. These algorithms are used as a model for an analysis to demonstrate that cryptographic design criteria are necessary but not sufficient conditions; we also use the model to determine how to secure the cryptographic algorithm against the secret attack

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05776252

Title: Multiplexing of variable rate encoded streams

Author(s): Haskell, B.G.; Reibman, A.R.

Author Affiliation: AT&T Bell Labs., Holmdel, NJ, USA

Journal: IEEE Transactions on Circuits and Systems for Video Technology, vol.4, no.4, pp.417-24

Country of Publication: USA Publication Date: Aug. 1994

ISSN: 1051-8215 CODEN: 1TCTEM

U.S. Copyright Clearance Center Code: 1051-8215/94/\$04.00

Item Identifier (DOI): 10.1109/76.313136

Language: English

Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Discusses the problem of multiplexing several variable rate encoded streams into a single stream. Moreover, in order to facilitate editing of the resulting stream it is required that data generated during the same time interval is multiplexed together. Particular emphasis is placed on controlling encoder rates and combining data in such a way as to avoid overflow and underflow of buffers at encoder and decoder. Applications include satellite or cable transmission of a fixed number of different video channels, multimedia presentations with multiple video streams, and video on demand (for refs.)

Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

Descriptors: codecs; decoding; demultiplexing; demultiplexing equipment; image coding; multimedia systems;

multiplexing equipment; telecommunications control; video equipment; video signals

Identifiers: variable rate encoded streams; multiplexing; encoder rates; overflow; underflow; buffers; encoder; decoder; satellite transmission; cable transmission; video channels; multimedia; multiple video streams; video on demand

Classification Codes: B6230 (Switching centres and equipment); B6120B (Čodes); B6140C (Optical information, image and video signal processing); B6430 (Television equipment, systems and applications); C5260B (Computer vision and image processing techniques); C3370P (Control applications in video and audio techniques)

INSPEC Update Issue: 1994-039

Copyright: 1994, IEE

Dialog cLink: USP 10 Full Test Retrieval Options

20/5/1 (Item 1 from file: 99)

DIALOG(R)File 99: Wilson Appl. Sci & Tech Abs (c) 2009 The HW Wilson Co. All rights reserved.

1173534 H.W. Wilson Record Number: BAST94042141 Private-key encryption based on concatenation of codes

Al Jabri, A. Kh; Al-Thukair, F; Mirza, A

IEE Proceedings. Communications v. 141 (June '94) p. 105-10

Document Type: Feature Article ISSN: 1350-2425 Language: English Record Status: New record

Abstract: Public-key algebraic encryption (PUAE) has certain advantages that make it attractive in some applications. Variants of PUAE for private-key algebraic encryption (PRAE) have been proposed subsequently. PRAE is proven to be insecure under chosen plaintext attack. In the paper, some invariants of PRAE are studied, and a private-key cryptosystem based on concatenation of codes is proposed and analysed. The new system is composed of short-length codes and is designed to avoid the weaknesses in other PRAE systems. The system looks secure against known attacks. Some methods to improve the system information rate and security are also suggested. Reprinted by permission of the publisher.

Descriptors: Public key cryptosystems; Concatenated codes; Information rates;

20/5/2 (1tem 1 from file: 2)

DIALOG(R)File 2: INSPEC

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06781779

Title: Research directions for automated software verification: using trusted hardware

Author(s): Devanbu, P.; Stubblebine, S.

Author Affiliation: Inf. Syst. & Services Res. Center, AT&T Labs.-Res., Florham, NJ, USA

Book Title: Proceedings, 12th IEEE International Conference Automated Software Engineering (Cat. No.97TB100200)

Inclusive Page Numbers: 274-9

Publisher: IEEE Comput. Soc, Los Alamitos, CA

Country of Publication: USA

Publication Date: 1997

Conference Title: Proceedings 12th IEEE International Conference Automated Software Engineering

Conference Date: 1-5 Nov. 1997

Conference Location: Incline Village, NV, USA

Conference Sponsor: IEEE Comput. Soc. NASA Ames Res. Center AAAI ACM SIGART ACM SIGSOFT Microsoft

ISBN: 0818679611

U.S. Copyright Clearance Center Code: 0 8186 7961 1/97/\$10.00

Item Identifier (DOD: 10.1109/ASE.1997.632848

Number of Pages: xix+321

Language: English

Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Service providers hosting software on servers at the request of content providers need assurance that the hosted software has no undesirable properties. This problem applies to browsers which host applets, networked software which can host software agents, etc. The hosted software's properties are currently verified by testing and/or verification processes by the hosting computer. This increases cost, causes delay, and leads to difficulties in version control. By furnishing content providers with a physically secure computing device with an embedded certificid private key, such properties can be verified and/or enforced by the secure computing device at the content provider's site; the secure device can verify such properties statically whenever possible, and by inserting checks into the executable binary when necessary. The resulting binary is attested by a trusted signature, and can be hosted with confidence. The position paper is a preliminary report that outlines scientific and enineering coals in this project (15 refs.)

Subfile(s): C (Computing & Control Engineering)

Descriptors: computer networks; configuration management; program testing; program verification; security of data dentifiers: automated software verification; trusted hardware; service providers; servers; content providers; hosted software; browsers; applets; networked software; software agents; testing; hosting computer; version control; physically secure computing device; embedded certified private key; checks; executable binary; trusted signature; scientific goals; engineering logals

Classification Codes: C6110F (Formal methods); C6150G (Diagnostic, testing, debugging and evaluating systems); C6115

(Programming support); C6130S (Data security); C6150N (Distributed systems software)

INSPEC Update Issue: 1997-049

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05923243

Title: The first experimental cryptanalysis of the Data Encryption Standard

Author(s): Matsui, M.

Author Affiliation: Lab. of Comput. & Inf. Syst., Mitsubishi Electr. Corp., Kanagawa, Japan

Book Title: Advances in Cryptology - CRYPTO '94. 14th Annual International Cryptology Conference. Proceedings

Inclusive Page Numbers: 1-11
Publisher: Springer-Verlag, Berlin
Country of Publication: Germany

Publication Date: 1994

Conference Title: Advances in Cryptology - CRYPTO '94. 14th International Cryptology Conference Proceedings

Conference Date: 21-25 Aug. 1994

Conference Location: Santa Barbara, CA, USA

Conference Sponsor: Int. Assoc. Cryptologie Res. IEEE Comput. Soc. Tech. Committe on Security & Privacy

Editor(s): Desmedt, Y.G. ISBN: 3 540 58333 5 Number of Pages: vi+438 Language: English

Document Type: Conference Paper (PA)

Treatment: Experimental (X)

Abstract: Describes an improved version of linear cryptanalysis and its application to the first successful computer experiment in breaking the full 16-round DES. The scenario is a known-plaintext attack based on two new linear approximate equations, each of which provides candidates for 13 secret key bits with negligible memory. Moreover, reliability of the key candidates is taken into consideration, which increases the success rate. As a result, the full 16-round DES is breakable with a high probability of success if 2⁵⁸ random plaintexts and their ciphertexts are available. The author carried out the first experimental attack using 12 computers to confirm this: he finally reached all of the 56 secret key bits in 50 days, out of which 40 were spent for generating plaintexts and their ciphertexts and only 10 days were spent for the actual key search (

Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

Descriptors: cryptography; equations; mathematics computing; reliability; telecommunication computing Identifiers: linear cryptanalysis; Data Encryption Standard; 16-round DES; known-plaintext attack; linear approximate equations; secret key bits; negligible memory; key candidate reliability; success rate; random plaintexts; ciphertexts; key search

Classification Codes: B6120B (Codes); C6130S (Data security); C7310 (Mathematics computing); C7410F

(Communications computing)

INSPEC Update Issue: 1995-014 Copyright: 1995, IEE

Dialog eLink: USPTO Full Text Retrieval Options

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05329813

Title: Lyndon trees

Author(s): Subramanian, K.G.; Siromoney, R.; Mathew, L. Author Affiliation: Dept. of Math., Madras Christian Coll., India Journal: Theoretical Computer Science, vol.106, no.2, pp.373-83 Country of Publication: Netherlands

Publication Date: 14 Dec. 1992

ISSN: 0304-3975

CODEN: TCSCDI

U.S. Copyright Clearance Center Code: 0304-3975/92/\$05.00

Language: English

Document Type: Journal Paper (JP)

Treatment: Theoretical or Mathematical (T)

Abstract: Lyndon trees are introduced as a generalization of Lyndon words, and the basic properties studied. A correspondence between the sets of Lyndon words and Lyndon trees is established. A unique factorization theorem for factoring a tree in terms of Lyndon trees is proved. As an application of this result, a public key cryptosystem for trees is constructed, for which encryption and decryption are easy but cryptanalysis is hard (11 refs.)

Subfile(s): C (Computing & Control Engineering)

Descriptors: public key cryptography; trees (mathematics)

Identifiers: Lyndon trees; Lyndon words: factorization theorem; public key cryptosystem; encryption; decryption;

cryptanalysis

Classification Codes: C6130S (Data security); C1160 (Combinatorial mathematics)

INSPEC Update Issue: 1993-003

Copyright: 1993, IEE

Dialog cLink: USPTO Full Text Remiseral Onlines

20/5/5 (Item 4 from file: 2) DIALOG(R)File 2: INSPEC (c) 2009 The IET. All rights reserved.

04280402

Title: Cryptographic programs

Author(s): Ruhland, I.

Journal: Chip, no.9, pp.94-8

Country of Publication: West Germany

Publication Date: Sept. 1988 ISSN: 0170-6632

CODEN: CHIPDP Language: German

Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The author loosely surveys the theory and practice of various modern cryptographic methods. He mentions such topics as RSA code, public key systems, time locked codes and error checks, and gives a short introductory description to the mProtect and Protect programs. He also names three cryptographic programs available to the public-i.e. PC Crypt, The

Confidant and Encode/Decode-and four Pascal programs for performing given encrypting tasks (0 refs.)

Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

Descriptors: codes; cryptography; Pascal listings

Identifiers: cryptographic methods; RSA code; public key systems; time locked codes; error checks; mProtect; Protect programs; cryptographic programs; PC Crypt; The Confidant; Encode/Decode; Pascal programs; encrypting tasks

Classification Codes: B6120B (Codes); C6130 (Data handling techniques)

INSPEC Update Issue: 1989-003

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Dialog eLink: USPTO Fall Text Remissor Continue

20/5/6 (Item 5 from file; 2) DIALOG(R)File 2: INSPEC

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03801927

Title: Group parity check system for important information

Author(s): Tanaka, H.; Momohara, T.; Kaneku, S.

Author Affiliation: Fac. of Eng., Kobe Univ., Japan

Journal: Electronics and Communications in Japan, Part 1 (Communications), vol.68, no.2, pp.35-9

Country of Publication: USA

Publication Date: Feb. 1985

ISSN: 8756-6621 CODEN: ECICED

U.S. Copyright Clearance Center Code: 8756-6621/85/0002-0035\$7.50/0

Language: English

Document Type: Journal Paper (JP)

Treatment: Theoretical or Mathematical (T)

Abstract: Can we prevent human deception or computer crime by cryptography? The main functions of cryptography are 'secrecy' and 'authentification', and they are certainly effective for those outside a computer system. However, for the

professional insiders who want to attempt deception, no cryptosystem will work well even if the information is protected by advanced cryptography because of the dependence on human conscience. Therefore, based on the concept that only human can check human deception, the authors propose a new scheme of data security, the 'group parity check system for important information'. This scheme checks human deception arising in information input by mutual surveillance among people related to the information system. Furthermore, they show how to realize this scheme using the public key cryptosystem, and on a microcomputer. Although this scheme is inefficient because it requires duplex input of information, it will be effective if anolical to only important information (7 refs.)

Subfile(s): B (Electrical & Electronic Engineering)

Descriptors: cryptography

Identifiers: computer crime; cryptography; group parity check; human deception; mutual surveillance; public key

cryptosystem

Classification Codes: B6120B (Codes) INSPEC Update Issue: 1987-004

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Dialog cLink: USPTO Full Text Retrieval Options

20/5/7 (Item 6 from file: 2)
DIALOG(R)File 2: INSPEC
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03252254

Title: Authentication and digital signature

Author(s): Koyama, K.

Author Affiliation: Musashino Electrical Communication Lab., NTT, Tokyo, Japan

Journal: Information Processing Society of Japan, vol.24, no.7, pp.853-61

Country of Publication: Japan Publication Date: 1983

ISSN: 0447-8053 CODEN: JOSHA4 Language: Japanese

Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Computer security management has become paramount with the spread of electronic mail, office automation and other computer-integrated communication systems. It has become indispensable to automatically confirm the truth of information and the individual. This paper summarizes digital signature schemes for computer communication networks and discusses (1) identification and verification techniques for certifying the individual, (2) the application of digital signatures

based on public-key cryptosystems, and (3) protocols for digital signatures (28 refs.)

Subfile(s): C (Computing & Control Engineering)

Descriptors: security of data

Identifiers: security of data; authentication; digital signature; electronic mail; office automation; computer-integrated communication systems; identification; verification techniques; public-key cryptosystems; protocols

Classification Codes: C0230 (Economic, social and political aspects of computing); C6130 (Data handling techniques)

INSPEC Update Issue: 1984-006

Copyright: 1984, IEE

B. NPL Files, Full-text

File 20:Dialog Global Reporter 1997-2009/Jul 13 (c) 2009 Dialog File 15:ABI/Inform(R) 1971-2009/Jul 11 (c) 2009 ProQuest Info&Learning

- File 610: Business Wire 1999-2009/Jul 13
- (c) 2009 Business Wire. File 810: Business Wire 1986-1999/Feb 28
- (c) 1999 Business Wire
- File 613:PR Newswire 1999-2009/Jul 13
- (c) 2009 PR Newswire Association Inc File 813:PR Newswire 1987-1999/Apr 30
- (c) 1999 PR Newswire Association Inc
- File 634:San Jose Mercury Jun 1985-2009/Jul 10
- (c) 2009 San Jose Mercury News
- File 624:McGraw-Hill Publications 1985-2009/Jul 13
- - (c) 2009 McGraw-Hill Co. Inc
- Set Items Description
- 3532 (CONFIRM??? OR CONFIRMATION OR ACKNOWLEDG??? OR ACKNOWLEDGEMENT OR S1 AFFIRM??? OR ATTEST??? OR CERTIFY??? OR CHECK??? OR SUBSTANTIAT??? OR VERIFY??? OR PROVE? ? OR PROVING OR VALIDAT??? OR AUTHENTICITY) (10N) ((PUBLIC OR PRIVATE OR SYSTEM OR SECRET OR SYMMETRIC OR SYNCHRONOUS OR CONTENT OR ASSESS OR DECRYPTION OR ASYMMETRIC OR SYMMETRIC) () KEY? ? OR PKI OR PGP OR WEB() TRUST)
- 437 S1 (5N) (PLAYER OR PLAYERS OR RECORDER OR RECORDERS OR PLAYBACK OR DEVICE OR DEVICES OR VCR OR VCRS OR DVDR OR DVDRS OR APPARATUS OR DVR OR DIGITAL()VIDEO()RECORDER? ? OR PC OR PCS OR COMPUTER? ? OR DESKTOP? ? OR WORKSTATION? ? OR PROGRAM? ? OR APPLICATION? ? OR MODULE? ?)
- 658269 (USAGE OR USE) (3N) (CONDITION? ? OR TERMS OR RULE? ? OR RESTRICTION? ? OR RIGHTS OR LIMITATION? ?) OR (LIMIT??? OR RESTRICT??? OR SPECIFI?? OR PERMITTED OR FIXED OR DEFINED OR STIPULATED OR PREDEFINED OR PRESET OR PREESTABLISHED OR PREDETERMINED) (3N) (NUMBER OR TIMES OR COPIED OR COPIES OR PLAYED OR DOWNLOAD??) OR AVAILABILITY()DATES OR USAGE()PERIODS
- 65430 (CRYPTOGRA? OR (ELECTRONIC OR DIGITAL) () (SEAL? ? OR SIGNATURE? ? OR CERTIFICAT ??? OR ENVELOPE? ?) OR ENCRYPT ??? OR CIPHER? ? OR CYPHER? ? OR HASH ?? OR ENCOD??? OR ENC?PHER??) (10N) (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1 OR MPEG1) () AUDIO () LAYER () 3 OR GAME OR GAMES CD OR CDS OR COMPACT () (DISK? ? OR DISC? ?) OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR AUDIOVISUAL)
- 605154 (UNENCOD??? OR UNCOD??? OR UNENCRYPT??? OR DECRYPT??? OR DECOD??? OR DEC?PHER??? OR KEY OR KEYS) (10N) (MESSAGE? ? OR SIGNAL? ? OR PACKET? ? OR TRANSMISSION? ? OR BLOCK? ? OR INFORMATION OR DATA)
- 588285 (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1 OR MPEG1) () AUDIO () LAYER () 3 OR GAME OR GAMES CD OR CDS OR COMPACT() (DISK? ? OR DISC? ?) OR AUDIOVISUAL OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR PRODUCT OR UNIQUE OR SECURITY) (5N) (ID OR IDS OR IDENTIFICATION OR NUMBER? ? OR IDENTIFIER? ?)
- S7 0 AU=(MAARI, K? OR MAARI K? OR MAARI (1N) (K OR KOICHI))
- S8 1 S2 (S) S3 S9 6 S1 (S) S3
- S10 4 RD (unique items)

```
$11
         43 S1 (S) S4
S12
          22 S11 (S) (S5 OR S6)
S13
          20
             RD (unique items)
          20
S14
              S13 NOT (S8 OR S10)
$15
          4 S14 NOT PY>1998
S16
              S2 NOT PY>1997
S17
          11 S16 NOT (S8 OR S10 OR S15)
S18
          11 RD (unique items)
```

DIALOG(R)File 15: ABI/Inform(R) (c) 2009 ProQuest Info&Learning. All rights reserved.

01119888 97-69282 The Internet and EDI

15/3 K/1 (Item 1 from file: 15)

Muiznieks, Vik

Telecommunications (Americas Edition) v29n11 pp: 45-48 Nov 1995

ISSN: 0278-4831 Journal Code: TEC

Word Count: 1387

Text:

...enhanced mail (PEM) and pretty good privacy (PGP). PEM capabilities are described in RFCs 1421 to 1424, and provide for the confidentiality of messes via encryption, originator authentication, content integrity via message integrity check (MIC) algorithms, and non-repudiation if a public key mechanism is used. PGP, a privately developed public/private key system, provides mechanisms for encryption and authentication.

For EDI-based security, many companies deploy firewalls...

15/3,K/2 (Item 2 from file: 15) DIALOG(R)File 15: ABI/Inform(R) (c) 2009 ProQuest Info&Learning. All rights reserved.

00957574 96-06967 Cisco builds security into router software

Messmer, Ellen Network World v11n51 pp; 17, 20 Dec 19 1994 ISSN: 0887-7661 Journal Code: NWW

Word Count: 436

...secure but adds overhead, " Howard noted.

Public-key technology is based on a dual-key system that matches a secret key with a publicly known key in order to encrypt and decrypt data. With public key, the sender's identity and message content can be checked through the "hash" and digital signature.

This technique will be supported transparently in Cisco router networks.

The particular algorithm Cisco routers will use is based on the federal government's Digital ...

15/3.K/3 (Item 3 from file: 15) DIALOG(R)File 15: ABI/Inform(R)

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95-57956 00908564

Digital signatures: Signing and notarizing electronic forms

Theofanos, Mary F: Phillips, John T Records Management Quarterly v28n2 pp: 18-22+ Apr 1994

ISSN: 1050-2343 Journal Code: RMO

Word Count: 3587

Text:

...draft standards concerning the admissibility of electronic records as evidence in court. The National Institute of Science and Technology (NIST) is working to develop a public key encryption standard and

message digest algorithm for use on certifying the

authenticity of messages. The Department of the Treasury already has a system acceptable to the General Accounting Office which replaces written signatures on disbursements by using the "Data Encryption Standard (DES) to calculate a message digest based on a binary key." Much of the information for this paper comes from Data Systems Research and Development Program efforts performed by Martin Marietta Energy Systems to develop the Prototype Electronic Records Management System (PERMS) for the U.S...

...technical issues for use of digital signatures as an additional subsystem of an overall Electronic Document Management System. The goal of the research was to illustrate the viability of digital signatures as an additional technology to existing automated records

management systems and show that such a technology can provide acceptable authentication and validation similar to a...

15/3 K/4 (Item 1 from file: 813) DIALOG(R)File 813: PR Newswire

(c) 1999 PR Newswire Association Inc. All rights reserved.

SCIENTIFIC-ATLANTA LICENSES CYLINK'S SECURITY TECHNIQUES FOR DIGITAL BROADBAND APPLICATIONS

Date: January 9, 1996 12:49 EST Word Count: 513

Correction:

...encrypted and exchanged. The identity of the sender and the message content can be authenticated -- an important capability for multi-provider authorization environments and for validation of orders from subscribers.

A public key-based cryptography system controls the encryption and decryption of messages. Each user is assigned two unique mathematically-related keys: a published public key, and a secret private key. In a cable TV environment, the public key for each subscriber's set-top terminal can...

18/3,K/l (Item 1 from file: 15)
DIALOG(R)File 15:
ABI/Inform(R)
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01561463 02-12452

Legal reporter

Anderson, Teresa

Security Management v41n12 pp: 127-128+

Dec 1997

ISSN: 0145-9406 Journal Code: SEM Word Count: 1973

Text

...via the key certification system use a key escrow system that allows law enforcement to intercept and decode encrypted communications. Under a key certification arrangement, computer users obtain public key certificates from some designated authority. The certificates verify their identity, thus assuring all users of public/private encryption keys that the private keyholders are who they claim to be. Key certification is widely...

18/3,K/2 (Item 2 from file: 15)
DIALOG(R)File 15:
ABI/Inform(R)
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01500172 01-51160

Internet security: Being wired has its price

Anonymous

Computer Reseller News n753 pp: 134-136+

Sep 8, 1997

ISSN: 0893-8377 Journal

Code: CRN Word Count: 2652

Text:

...the signature is authentic and recover the message in a provably unmodified form. Signature verification is accomplished using an attached certificate.

A certificate is a **computer**-based record that **attests** to the binding of a **public key** to an identified subscriber and is issued under a specified policy. More correctly, a certificate is evidence of prior authentication, where authentication here means some...

```
18/3,K/3 (Item 3 from file: 15)
DIALOG(R)File 15:
ABI/Inform(R)
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01397342 00-48329
```

Smart Card advancements

Anonymous

Security v34n3 pp: 16

Mar 1997

ISSN: 0890-8826 Journal

Code: SRT

Abstract:

...magnetic stripe technology. According to Kobus Marneweck, the big success story with smart cards so far has been phone cards. Another area smart cards are **proving** useful is for Internet access using **public key** encryption. In certain **applications**, such

as transit cards, non-contact smart cards are where things are headed, says Marneweck.

18/3,K/4 (Item 4 from file: 15)
DIALOG(R)File 15:
ABI/Inform(R)
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97-98043

Digital IDs to help secure Internet

Wingfield, Nick
InfoWorld
v17n43 pp: 12
Oct 23, 1995
ISSN: 0199-6649 Journal

01148649

Code: IFW Word Count: 414

Text:

...to improve Internet security by issuing digital certificates will begin next summer, when the United States Postal Service enters market testing as a digital-certificate **certifying** authority(CA).

Digital certificates are unique **programs** based on **public- key** cryptography that **verify** the identity of parties on
networks such as the Internet. Certifying authorities act as trusted third
parties that issue digital certificates to both end-users...

18/3,K/5 (Item 5 from file: 15)
DIALOG(R)File 15:
ABI/Inform(R)
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01061996 97-11390

PGP and PEM eliminate the email postcard problem

Trowbridge, Dave

Computer Technology Review v15n6 pp: 6-12

Jun 1995 ISSN: 0278-9647 Journal Code: CTN Word Count: 1781

Text .

...and authentication are assured (assuming no one has intercepted and purposefully tampered with it). A signed message looks like gibberish, but can be read without PGP using a program that translates

Radix-64 It cannot be validated or authenticated without PGP.

A signed, encrypted message cannot be read, validated, or authenticated without PGP. An unsigned, encrypted message cannot be read without PGP, but it cannot be validated or authenticated by any means—there is no assurance the message...

```
18/3,K/6 (Item 6 from file: 15)
DIALOG(R)File 15:
ABI/Inform(R)
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00759575 94-08967
```

A public key extension to the Common Cryptographic Architecture

```
Le, An V; Matyas, Stephen M; Johnson, Donald B; Wilkins, John D IBM Systems Journal v32n3 pp: 461-485 ISSN: 0018-8670 Journal Code: ISY Word Count: 16326 Text: ...services.
```

The application signature generate service generates an application digital signature on the hash value of user-supplied data, using a private certification key, a **private key**-management key, or a private user key.

The application signature verify service verifies an application digital signature on the hash value of user-supplied data, using a public certification key, a public key-management key, or a public user key...

```
18/3,K/8 (Item 1 from file: 810)
DIALOG(R)File 810:
Business Wire
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```

BW1029

NCD SOFTWARE :

NCD Software Unveils New Integrated Security Solution for Z-Mail for Windows, Optimizing Internet Mail Protection; New ViaCrypt PGP Solution, Customized for Z-Mail, Brings Users Special Encryption, Decryption and Digital Signature Capabilities

February 20, 1996

```
Byline: Business Editors & Computer
Writers
...attachments are
secured through public-key cryptography; only the person with the
corresponding private key can unlock the encrypted file.
Digital signatures, another valuable security application
```

provided by ViaCrypt **PGP**, allow Z-Mail users to **verify** that the message they received was sent by a specific person and that the

message was not altered.

"Security has become our customers' primary consideration...

```
18/3,K/9 (Item 2 from file: 810)
DIALOG(R)File 810:
Business Wire
(c) 1999 Business Wire . All rights reserved.
0486998
BW1322
```

CDN CREW ENERGY CORP :

CANADIAN CREW ENERGY - COMPLETION OF INITIAL GEOTHERMAL WELL ANTICIPATED BY EARLY JUNE - PROJECT REVIEW

May 15, 1995

Byline: Business Editors

...about 1300 metres then angled towards Meager Mountain to two target zones, at depths of about 2400 metres and about 3450 metres. The exploration drilling program has been designed to

confirm

assumptions that Pacific GeoPower (PGP) (a joint venture between

Canadian Crew Energy Corp. and Guy F. Atkinson Holdings) has made about the temperature, flow rates, geological structure, and other aspects...

18/3,K/10 (Item 3 from file: 810)
DIALOG(R)File 810:
Business Wire
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0476511
BM1052

COMMERCENET :

CommerceNet Launches Comprehensive Certification Model For Commercial Use On The Internet Certification Authority Filot Provides Critical Stage in Assuring Secure Internet Electronic Commerce

April 10, 1995

Byline:

Business Editors/Computer Writers

...technology to certify secure web servers and CommerceNet-affiliated individuals engaged in electronic commerce pilots over the Internet. By positively identifying buyers and sellers through **public key** certificates and other

proven security

technology, the **program** will provide a major step in providing the assurance needed for the Internet to be used for commercial transactions.

"This trial is a major step ...

18/3,K/11 (Item 1 from file: 634) DIALOG(R)File 634: San Jose Mercury (c) 2009 San Jose Mercury News. All rights reserved.

07642177

GOVERNMENT, FIRMS FIND WAY TO VERIFY ELECTRONIC SIGNATURES

San Jose Mercury
News (SJ) - Saturday, May 21, 1994
By:
Associated Press
Edition: Morning Final
Section: Business Page: 13D
Word Count:

234

...retrieved by the agency, a 320-bit number, which is the electronic signature, will appear on the document. The government employee will then run a computer program to verify the signature against the person's public key. The key could be stored in a secure government data base, Smid said.

File 9:Business & Industry(R) Jul/1994-2009/Jul 11 (c) 2009 Gale/Cengage File 275:Gale Group Computer DB(TM) 1983-2009/Jun 12 (c) 2009 Gale/Cengage

File 621:Gale Group New Prod.Annou.(R) 1985-2009/Jun 04

(c) 2009 Gale/Cengage

File 636:Gale Group Newsletter DB(TM) 1987-2009/Jun 18

(c) 2009 Gale/Cengage

File 16:Gale Group PROMT(R) 1990-2009/Jun 18

(c) 2009 Gale/Cengage

File 160:Gale Group PROMT(R) 1972-1989

(c) 1999 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2009/Jun 25

(c) 2009 Gale/Cengage

Set Items Description

- (CONFIRM??? OR CONFIRMATION OR ACKNOWLEDG??? OR ACKNOWLEDGEMENT OR AFFIRM??? OR ATTEST??? OR CERTIFY??? OR CHECK??? OR SUBSTANTIAT??? OR VERIFY??? OR PROVE? ? OR PROVING OR VALIDAT??? OR AUTHENTICITY) (10N) ((PUBLIC OR PRIVATE OR SYSTEM OR SECRET OR SYMMETRIC OR SYNCHRONOUS OR CONTENT OR ASSESS OR DECRYPTION OR ASYMMETRIC OR SYMMETRIC) () KEY? ? OR PKI OR PGP OR WEB() TRUST)
- 575 S1 (5N) (PLAYER OR PLAYERS OR RECORDER OR RECORDERS OR PLAYBACK OR DEVICE OR DEVICES OR VCR OR VCRS OR DVDR OR DVDRS OR APPARATUS OR DVR OR DIGITAL()VIDEO()RECORDER? ? OR PC OR PCS OR COMPUTER? ? OR DESKTOP? ? OR WORKSTATION? ? OR PROGRAM? ? OR APPLICATION? ? OR MODULE? ?)
- 520145 (USAGE OR USE) (3N) (CONDITION? ? OR TERMS OR RULE? ? OR RESTRICTION? ? OR RIGHTS OR LIMITATION? ?) OR (LIMIT??? OR RESTRICT??? OR SPECIFI?? OR PERMITTED OR FIXED OR DEFINED OR STIPULATED OR PREDEFINED OR PRESET OR PREESTABLISHED OR PREDETERMINED) (3N) (NUMBER OR TIMES OR COPIED OR COPIES OR PLAYED OR DOWNLOAD ??) OR AVAILABILITY() DATES OR USAGE() PERIODS
- 100470 (CRYPTOGRA? OR (ELECTRONIC OR DIGITAL) () (SEAL? ? OR SIGNATURE? ? OR CERTIFICAT ??? OR ENVELOPE? ?) OR ENCRYPT ??? OR CIPHER? ? OR CYPHER? ? OR HASH?? OR ENCOD??? OR ENC?PHER??) (10N) (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? ? OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 MP()3 OR (MPEG()1 OR MPEG1)()AUDIO()LAYER()3 OR GAME OR GAMES CD OR CDS OR COMPACT()(DISK? ? OR DISC? ?) OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR AUDIOVISUAL)
- 631203 (UNENCOD??? OR UNCOD??? OR UNENCRYPT??? OR DECRYPT??? OR DECOD??? OR DEC?PHER??? OR KEY OR KEYS) (10N) (MESSAGE? ? OR SIGNAL? ? OR PACKET? ? OR TRANSMISSION? ? OR BLOCK? ? OR INFORMATION OR DATA)

S6 465945 (CONTENT OR IMAGE OR IMAGES OR PICTURE OR PICTURES OR ART OR ARTWORK? 9 OR GRAPHIC OR GRAPHICS OR ILLUSTRAT? OR PHOTO OR PHOTOS OR PHOTOGRAPH OR PHOTOGRAPHS OR PHOTOGRAPHY OR MOVIE? ? OR FILM? ? OR VIDEO OR VIDEOS OR ALBUM OR ALBUMS OR TRACK OR TRACKS OR MP3 OR MP3 OR MP3 (M (1) OR (MPEG()) 1 OR MPEGI()) AUDIO()).LAYER() 3 OR GAMES OR GAMES CD OR CDS OR COMPACT() (DISK? ? OR DISC? ?) OR AUDIOVISUAL OR DVD OR DVDS OR MUSIC OR SONG OR SONGS OR PRODUCT OR UNIQUE OR SECURITY) (SN) (ID OR IDS OR IDENTIFICE?)

```
AU=(MAARI, K? OR MAARI K? OR MAARI (1N) (K OR KOICHI))
S8
            0
               S2 (S) S3
S9
           21 S2 AND S3
S10
           12
               RD (unique items)
S11
               S10 NOT PY>1997
S12
           15
               S1 (S) S3
S13
           7 RD (unique items)
          105 (S1 OR S2) (S) S4
41 S14 (S) (S5 OR S6)
S14
S15
         10 S15 NOT PY>1997
8 RD (unique items)
S16
S17
S18 141 S1 AND S3
        132 S18 NOT (S11 OR S13 OR S17)
S19
S20
           35
              S19 NOT PY>1997
$21
         29 RD (unique items)
```

11/3,K/1 (Item 1 from file: 275)

Kessler, Gary; Sheppard, Steve

DIALOG(R)File 275: Gale Group Computer DB(TM)

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02097007 Supplier Number: 19656448 (Use Format 7 Or 9 For FULL TEXT)

Time to spend electronic money. (e-commerce issues for businesses) (Internet/Web/Online Service Information)

Network VAR, v5, n8, p65(8) August, 1997 ISSN: 1082-8818 Language: English Record Type: Fulltext; Abstract Word Count: 5177 Line Count: 00468 ...and unique identifier Validity (or operational) period Subject's name and unique identifier Subject's public key information Standard extensions Certificate appropriate U# definition Key usage limitation definition Certificate policy information Other extensions Application-specific Certificate authority (CA)-specific A certificate authority (CA), then, is any agency that issues certificates. A company...

...begs for a formal definition. While electronic commerce, and commerce over the Internet in particular, is a motivating factor for PKI and CA work, the applications for PKI are much broader. PKI

applications include secure electronic mail, payments and electronic checks, electronic data interchange (EDI), secure transfer of domain

```
name service (DNS) and routing information, electronic forms, and digitally
signed documents.
      While a single global PKI...
17/3,K/2 (Item 1 from file: 275)
DIALOG(R)File 275: Gale
Group Computer DB(TM)
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reserved.
01868535
             Supplier Number:
17610992 (Use Format 7 Or 9 For FULL TEXT )
The Internet and EDI. (electronic data interchange) (Technology
Information)
Muiznieks, Vik
Telecommunications , v29 , n11 , p45(3)
Nov , 1995
ISSN: 0278-4831
Language:
Enalish
           Record Type: Fulltext; Abstract
Word Count: 1533 Line
Count: 00139
...enhanced mall (PEM) and pretty good privacy (PGP). PEM capabilities are
described in RFCs 1421 to 1424, and provide for the confidentiality of
messages via encryption, originator authentication, content
integrity via message integrity check (MIC) algorithms, and
non-repudiation if a public key mechanism is used. PGP, a
privately developed public/private key system, provides mechanisms for
encryption and authentication.
     For EDI-based security, many companies deploy firewalls...
17/3,K/3 (Item 2 from file: 275)
DIALOG(R)File 275: Gale
Group Computer DB(TM)
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reserved.
01032028
             Supplier Number:
00522323
Digital Signatures: A
Tutorial Survey.
```

Akl, S.G.

Computer , v16 , n2 , p15-24

Feb. , 1983

TSSN: 0018-9162

Language:

ENGLISH Record Type: ABSTRACT

Abstract: For various reasons it is desirable in electronic mail systems to validate and authenticate message content. In public and private— key cryptosystems a digital signature that is appended to or integrated into a message can assure that a sender's (S) message is received only by the receiver (R) and....S. Although relatively slow, a system such as the Rivest-Shamir-Adleman (RSA) system that uses two random 100 decimal digit numbers to generate a key assures message integrity. By using the best known algorithm calculating the key would take over a billion years of computing time.

Abstract:

17/3,K/4 (Item 1 from file: 636) DIALOG(R)File 636: Gale Group Newsletter DB(TM) (c) 2009 Gale/Cengage. All rights reserved.

02977714 Supplier Number: 46068965 (USE FORMAT 7 FOR FULLTEXT)

SCIENTIFIC-ATLANTA: S-A licenses Cylink's security techniques for digital broadband applications M2

M2 Presswire , p N/A Jan 16 , 1996

Language: English Record Type: Fulltext

Document Type: Newswire ; Trade Word Count:

547

...encrypted and exchanged. The identity of the sender and the message content can be authenticated — an important capability for multi-provider authorisation environments and for **validation** of orders from subscribers.

A public key-based cryptography system controls the encryption and decryption of messages. Each user is assigned two unique mathematically-related keys: a published public key, and a secret private key. In a cable TV environment, the public key for each subscriber's set-top terminal can...

17/3,K/5 (Item 2 from file: 636) DIALOG(R)File 636: Gale

```
Group Newsletter DB(TM)
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reserved.
02532509
            Supplier Number:
45104635 (USE FORMAT 7 FOR FULLTEXT)
Security of paper-based systems
Financial Technology Insight , p N/A
Nov , 1994
Language:
English
        Record Type: Fulltext
Document Type:
Newsletter ; Trade
Word Count: 122
   Supplier Number: (USE
FORMAT 7 FOR FULLTEXT)
Text:
A digital signature is essentially a very complex checksum, related
to the content of the message and a number (the
private kev) known only to the sender. A different, but related,
number (the public key) allows the recipient to check
who sent the message. In order to tie these keys back to a
particular organization or individual, it is possible to issue a credit
card -sized token, called a smartcard. This contains a tiny computer...
17/3,K/6 (Item 1 from file: 148)
DIALOG(R)File 148: Gale
Group Trade & Industry DB
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reserved.
08016758
            Supplier Number:
17221232 (USE FORMAT 7 OR 9 FOR FULL TEXT )
VeriSign to offer digital ID services.
Roberts, Erica
CommunicationsWeek , n563 , p4(1)
June 26 , 1995
ISSN: 0746-8121
Language:
English
Record Type: Fulltext; Abstract
Word Count:
```

```
Abstract: ...difficult to assess validity of information received
over the network and is difficult to verify sources. On-line service providers,
he says, need to provide content integrity and validation of
services. VeriSign employs public-key cryptography, which
uses a matched pair of public and private keys to encrypt and
decrypt messages.
Abstract:
17/3,K/7 (Item 2 from file: 148)
DIALOG(R)File 148: Gale
Group Trade & Industry DB
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reserved.
06796891
             Supplier Number:
14023755 (USE FORMAT 7 OR 9 FOR FULL TEXT )
NIST's 'victory' will save DSS users an arm and a leg.
(National Institute of Standards and Technology, digital signature standard)
(IRM Notebook) (Column)
Houser, Walter R.
Government Computer News , v12 , n14 ,
p25(1)
July 5 , 1993
Document Type: Column
ISSN: 0738-4300
Language: ENGLISH
Record Type:
FULLTEXT: ABSTRACT
Word Count: 815
   Line Count: 00064
...key for decoding. The agency application system uses its private key and
the citizen's public key to code the messasge so it can be decoded
only by the intended recipient.
      Even when the message content is not sensitive, public-
key algorithms can serve as digital signatures, ensuring the
authenticity and integrity of messages. A sender's mail software can
"sign" messages by encrypting a "hash" number calculated by running the
text though a standard...
17/3,K/8 (Item 3 from file: 148)
```

DIALOG(R)File 148: Gale Group Trade & Industry DB (c) 2009 Gale/Cengage. All rights

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reserved.
```

06181289 Supplier Number: 13035397 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Changes to encryption standard would expand fed users' options. (Federal Information Processing Standard 46-1 for the Data Encryption Standard) (Brief Article)

Schwartz, Karen D.

Government Computer News , v11 , n24 , p3(1) Nov 23 , 1992

Document Type: Brief Article ISSN: 0738-4300

Language: ENGLISH Record Type: FULLTEXT

Word Count: 352

Line Count: 00028

... DES revision more consistent with the proposed FIPS for digital signatures. The Digital Signature Standard, now in a second public comment period, will specify a public-key digital

signature algorithm and allow users to verify both

message content and sender identity.

So far, most agency comments seem to favor renewing DES as is, Smid said, but he has received verbal requests to add...

21/3.K/1 (Item 1 from file: 9)

DIALOG(R)File 9: Business & Industry(R)

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01454886 Supplier Number: 24101284 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Tales from the encryption

(Problems with early copy protection systems impeded their widespread adoption, but large scale commercial software piracy has spurred new interest in finding effective ways to halt this drain on revenues)

One to One, n 89, p 51 December 1997

Document Type: Journal ISSN: 0268-8786 (United Kingdom)

Language: English Record Type: Fulltext

Word Count; 3292 (USE FORMAT 7 OR 9 FOR FULLTEXT)

...information, CD-Secure2 can also define exactly what conditions the software can be used under. It could be try-before-you-buy - offering 30 days usage without restriction before the disc becomes useless unless it is 'bought' with a credit card - or, using pay-as-you-go options, it can control the number ...

...per copy. Ideally, the replicator needs the CD-Cops disc analysis software that provides the original keycode information so that the first discs can be checked off the line and the final public

key code generated quickly ready for label printing. With just a few hours turnaround to produce the public keycode, the delays introduced by CD-Cops are...

21/3.K/2 (Item 1 from file: 275)

DIALOG(R)File 275: Gale Group Computer DB(TM)

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02118629 Supplier Number: 19958165 (Use Format 7 Or 9 For FULL TEXT)

Open for business: Web storefront creation software, (12 electronic-commerce products reviewed) (includes related articles on elements of an electronic storefront, Editors' Choices, glossary, online-service and ISP templates, offering transaction security, business cob-usiness commerce) (Software Review) (Evaluation)

Linthicum, David S.

PC Magazine, v16, n20, p143(19)

Nov 18, 1997

Document Type: Evaluation

ISSN: 0888-8507

Language: English Record Type: Fulltext; Abstract

Word Count: 12518 Line Count: 00996

...data security and interoperability between payment schemes.

Public-key encryption An encryption system that uses two keys, a public key for encryption messages and a **private key** for decrypting messages, to enable users to **verify** each other's messages

without exchanging secret keys.

Secure Electronic Transaction (SET) A secure payment protocol developed by MasterCard and Visa designed to ensure security for bank card transactions over the Internet. It....

...A public security protocol, also developed by Netscape, that can create a secure link between the Web server and the browser.

SKU Stockkeeping unit; a number designating one specific

Virtual Spin LLC: Cartalog...

21/3,K/3 (Item 2 from file: 275)

DIALOG(R)File 275: Gale Group Computer DB(TM)

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02060529 Supplier Number: 19365954 (Use Format 7 Or 9 For FULL TEXT)

Role of digital certificates looks secure; but roadblocks to use include no interoperability, too many issuing authorities. (Technology Information)

Kosiur, Dave PC Week, v14, n17, p115(2) April 28, 1997 ISSN: 0740-1604 Language: English Record Type: Fulltext; Abstract

Word Count: 1506 Line Count: 00124

...A sender can generate a digital signature for a message using a private key, but recipients of the signed message need the sender's corresponding public key to verify the digital signature. Obtaining

a copy of the sender's digital certificate is one way of doing this.

Corporations also can issue digital certificates to...

...or CAs, will verify each other's certificates as more issuers join the marketplace and more people use digital certificates. Right now, there are a limited number of well-known, trusted CAs, including but

not limited to the U.S. Postal Service, VeriSign and Entrust Technologies Inc., but the number will grow...

21/3,K/4 (Item 3 from file: 275)
DIALOG(R)File 275; Gale Group Computer DB(TM)

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02049612 Supplier Number: 19055885 (Use Format 7 Or 9 For FULL TEXT)

E-mail programs. (SoftArc's FirstClass 3.5, StarNine Technologies' Quarterdeck Mail 4.0 and CE Software's QuickMail Pro) (Software Review)(Evaluation)

Beckman, Mel Macworld, v14, n3, p48(2)

March , 1997

Document Type: Evaluation ISSN: 0741-8647

Language: English Record Type: Fulltext; Abstract

Word Count: 1346 Line Count: 00113

...by the "seat," or user, license control is an important issue--particularly if you're setting up man y users. A license key gives a

specific number of users access to the server, allowing the

programs to be distributed over a network. All three products have thorough end-user documentation, but only...

...interserver message routing, batch account administration, and Internet interoperability. Users want styled text, forms processing, automatic replies, dra g-and-drop attachment handling, a spelling checker, public-key encryption, and rule-driven filtering.

On the server side, both Quarterdeck Mail and FirstClass have competent backup mechanisms, routing between message servers, and batch account...

21/3,K/5 (Item 4 from file: 275)

DIALOG(R)File 275: Gale Group Computer DB(TM)

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01997529 Supplier Number: 18741144 (Use Format 7 Or 9 For FULL TEXT)

Web servers. (Lab Test) (includes related articles on the top products, Netscape Enterprise 2.0 and FTP Esplanade for Windows NT, and on Apple's Internet Server Solution)(Evaluation)

PC User, n289, p50(14)

August 21, 1996

Document Type: Evaluation

ISSN: 0263-5720

Language: English Record Type: Fulltext: Abstract

Word Count: 10664 Line Count: 00828

... of clients on the network increased. Efficient servers should follow an upward trend, until the maximum number of connections is reached.

Lower-specification products which limit the number of concurrent connections start off with a poor score and rapidly get worse.

Microsoft Internet Information Server 1.0 and Netscape's Enterprise 2.0...Internet with just a user name and password, and demonstrates the benefits of applications using HTML and JavaScript. However, the whole system feels cumbersome and limited. At times response is

slow, and viewing at 640x480 resolution tends to be cramped. Despite this, the interface is easy to use and allows access to every...the private key. Any message encrypted with the server's private key and the client's public key can be decrypted using the client's private key and the server's public key.

Checking sender ID

Another feature offered with SSL is the ability to check the identity of the sender of a message. This doesn't encrypt the message, but still creates an exclusive channel between the server and client, where the message can be digitally signed. This signature is again confirmed using the public key system.

The SSL protocol requires server administrators to obtain a Key Certificate from a certificate authority, which maintains a list of authorised certificate holders and...

21/3.K/7 (Item 6 from file: 275)

DIALOG(R)File 275: Gale Group Computer DB(TM)

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01861496 Supplier Number: 17433068 (Use Format 7 Or 9 For FULL TEXT) Defending the Unix perimeter. (poor Unix administration can render networks vulnerable to security threats)(includes related articles)(Special Report) (Technology Tutorial)(Tutorial)

Cullen, Cindy LAN Magazine, p149(3) Oct , 1995

Document Type: Tutorial ISSN: 1069-5621

Language: English Record Type: Fulltext; Abstract

Word Count: 2587 Line Count: 00204

... The windowing standard for Unix is X Window. It is usually referred to as X. Security for X is controlled by the end user. The use of the terms client and server can be confusing in relation to X; for clarity, the monitor displaying X will be called a display station. The user can...legitimate receiver can decrypt the message with their private key.

Each user's private key can be used to digitally sign a document. The corresponding public key is used to verify that the

document was written by the author and hasn't been tampered with. PGP is freeware for noncommercial use, although commercially supported versions do...

21/3,K/8 (Item 7 from file: 275) DIALOG(R)File 275: Gale Group Computer DB(TM) (c) 2009 Gale/Cengage, All rights reserved.

01802864 Supplier Number: 17162300 (Use Format 7 Or 9 For FULL TEXT)
Making your customer's network secure.

Addelson, Roger STACKS, v2, n12, p27(7) Dec, 1994

ISSN: 1070-8596

Language: English Record Type: Fulltext: Abstract

Word Count: 4120 Line Count: 00341

...protection is automatic callback. Again, based upon an ID/password combination, the communication program gracefully disconnects the session, then calls the user back at a **predetermined** phone **number** associated with the ID/password. This requires that the remote user call

associated with the 1D/password. This requires that the remote user call from a prearranged phone number. It is particularly cumbersome for remote users who...

...the administrator to restrict the time, day, and specific workstation location from which a particular user may access the network resources.

Intruder-detection schemes often restrict the number of

incorrect login attempts associated with an ID. If a preset number of incorrect attempts occurs within a specified period of time, the account is disabled or the workstation is locked for a predetermined period and a...create a digital envelope, which holds an RSA-encrypted DES key and DES-encrypted data. You can create a digital signature as a means of verifying who you are by encrypting with your private key and letting others decrypt your message with your public key.

Congress and the Clinton Administration have proposed a controversial new encryption device called the Clipper...

21/3,K/9 (Item 8 from file: 275) DIALOG(R)File 275: Gale Group Computer DB(TM) (c) 2009 Gale/Cengage. All rights reserved.

01801703 Supplier Number: 17162680 (Use Format 7 Or 9 For FULL TEXT)

Toward electronic money: some Internet experiments. (includes related articles on RSA's public-key encryption and on smart cards for digital money)

Dyson, Peter E.
Seybold Report on Desktop Publishing , v9 , n10 , p3(9)
June 10 , 1995
ISSN: 0889-9762
Language: English
Word Count: 6493
Line Count: 00607

...all the proposals for digital money. But encryption by itself cannot create trust. It can only transfer distrust. For example, it is said that a public-key signature can unambiguously verify the

identity of the sender of a message. But that presumes that the public key truly identifies the right person. You must then ask how...bank might use one key for one-dollar coins, another for five-dollar coins and so on. The bank would, of course, publish the corresponding public keys,

allowing anyone to verify the value of such a coin. When the Pay

button for an Internet purchase is pressed, your computer contacts the bank and asks to download...process of guessing at factors rather unrewarding. On the other hand, testing whether a given number is prime is fairly easy, and there is no limit to the number of primes that exist.

In the RSA scheme, encryption keys are large prime numbers, and are always chosen in pairs. (By large, we mean at...

...key. Thus it is possible to publish one of the keys, provided you keep the other one secret.

There are two main uses for a public-key encryption system: sending secret messages and proving your identity. They use the public and private keys in opposite ways:

To send a message that only the intended recipient can decode, you look up his public key in a directory. (On the...

21/3,K/10 (Item 9 from file: 275) DIALOG(R)File 275: Gale Group Computer DB(TM)

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01695703 Supplier Number: 16192274 (Use Format 7 Or 9 For FULL TEXT)

Cyber-privacy: in cyberspace, the walls have ears. So check out the RSAREF cryptography toolkit and keep your Email safe. (RSA Data Security Inc) (Tutorial)

Lane, Alex

Computer Shopper, v14, n9, p594(3)

Sept, 1994

Document Type: Tutorial

ISSN: 0886-0556

Language: ENGLISH Record Type: FULLTEXT; ABSTRACT Word Count: 2305 Line Count: 00178

...you to encrypt the message with your private key as well, so that upon receipt the message will only become readable when decrypted with your public key, thus proving you sent the message.

Message Digests and Data Signatures

Just as a fingerprint identifies a person, a message digest can be used to verify data..math performed in RSAREF makes heavy use of large prime numbers, so large that most programming languages can't handle them. A 1,024-bit number (the maximum size defined for an RSA modulus) occupies 128 bytes! Such components of public- and private-key structures are stored in fixed-length arrays of unsigned characters with...

21/3,K/11 (Item 10 from file: 275)
DIALOG(R)File 275: Gale Group Computer DB(TM)
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01673167 Supplier Number: 15084249 (Use Format 7 Or 9 For FULL TEXT)

RSA opens up security technology. (RSA Data Security Inc.) (Brief Article)

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Hess. Robert
MacWEEK, v8, n13, p15(1)
March 28, 1994
Document Type: Brief Article
ISSN: 0892-8118
Language: ENGLISH Record Type: FULLTEXT
Word Count: 249 Line Count: 00020
...sender. A user with a private Ripem key -- similar to a very long,
nonsensical password -- can sign a message so that anyone with the
associated public key can verify the identity of the
originator. Apple uses this technology to ensure the reliability of
PowerShare and PowerTalk communications.
      RSA previously distributed a freeware reference implementation of its
cryptographic tools, but, until now, this software was approved only for
individual use. Now the company has relaxed restrictions and allows
use within any custom application, as long as the resulting product
is not sold or used to provide a for-profit service.
      Ripem code is available...
21/3,K/12 (Item 11 from file: 275)
DIALOG(R)File 275: Gale Group Computer DB(TM)
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01616858 Supplier Number: 14352102 (Use Format 7 Or 9 For FULL TEXT)
To catch a thief. (Network Edition) (network security) (includes related article on securing NetWare 3.11)
Derfler, Frank J. Jr.; Schireson, Max; Stefanini, Tim
PC Magazine , v12 , n16 , pNE1(5)
Sept 28, 1993
ISSN: 0888-8507
Language: ENGLISH Record Type: FULLTEXT: ABSTRACT
Word Count: 2724 Line Count: 00226
...each 512 bits long. The public and private numbers are mathematically
related so that data is encrypted using the private key and decrypted using
the public key. This makes it possible to verify
exactly who sent the encrypted information. RSA is considered nearly
impervious to brute force attack. It is based on factoring extremely large
numbers, which requires...primarily protect a system from break-in attempts
based on repeated trials of password cracking. The following are Novell's
quidelines:
     Recommended default account balance/restrictions: (use
 default)
     Account has expiration date: no
     Date account expires: (use default)
     Limit concurrent connections: yes
     Maximum connections: 1
     Require password: yes
     Minimum password length: 5...
```

21/3,K/13 (Item 12 from file: 275) DIALOG(R)File 275: Gale Group Computer DB(TM) (c) 2009 Gale/Cengage. All rights reserved.

01615373 Supplier Number: 14207743 (Use Format 7 Or 9 For FULL TEXT) Communications privacy: implications for network design.

Rotenberg, Marc

Communications of the ACM, v36, n8, p61(8)

August , 1993 ISSN: 0001-0782

Language; ENGLISH Record Type; FULLTEXT; ABSTRACT

Word Count: 7065 Line Count: 00594

...forms of protection establish rights that are enforceable in law. These rights typically allow for the recoupment of damages from private parties, criminal fines, or restrictions on the use of the unlawfully

gathered information where the transgression occurs by the government.

Legal protections are likely to clarify the underlying privacy

interests, but are ...A related use for cryptography is the authentication of messages. Using public key encryption, a user can encrypt a message using his or her own private key. The recipient of the messages by using the the determine the authenticity of the messages by using the sender's public key.

To be effective, standards must be established so that users in different networks will be able to exchange messages. Anything less than a full implementation...

...are collected should be specified not later than at the time of data collection and the subsequent use should be limited to those purposes.

* The Use Limitation Principle states that personal data should not be disclosed for secondary purposes except with the consent of the data subject or by authority of law...the service, detailed profiles on users could be developed.

Regulatory authorities in the U.S. and Canada generally favored this second view and recommended strong restrictions on the use of the service. The policy debate surrounding Caller ID, and questions regarding the disclosure of personal data, are likely to continue as the service is...

21/3,K/14 (Item 1 from file: 621) DIALOG(R)File 621: Gale Group New Prod.Annou.(R) (c) 2009 Gale/Cengage. All rights reserved.

01485061 Supplier Number: 47100154 (USE FORMAT 7 FOR FULLTEXT) Security Dynamics Announces Third-Generation ACE/Serverr.

Business Wire, p 02041269 Feb 4, 1997 Language: English Record Type: Fulltext Document Type: Newswire; Trade Word Count: 1604

...introduce products and form partnerships that will enable delivery of the following security services:

— Certificate Management - Security Dynamics believes that in the future, certificates, which attest to the authenticity of the owners of public keys, will be increasingly used for identification and authentication, digital signatures and to support secure email (S/MIME), secure browser communications (with SL) and secure communications over the Internet (S/WaN). A certificate authority (CA) serves as a trusted third party that vouches for the authenticity of owners of public keys.

As part of its ESS certificate services, Security Dynamics plans to simplify the management of diverse certificates. Specifically, Security Dynamics intends to offer a software...accessible through Web browsers, to manage all Enterprise Security Services.

"The ESS architecture is providing our customers with a framework for understanding how public and private key, certificates, and other encryption technologies will be deployed on a proven security platform - ACE/Server - to deliver real corporate security applications," said Dave Power.

Pricing and Availability

Version 3.0 of the ACE/Server is currently...

...development, undetected software errors or bugs, changes in product pricing policies, competitive pressures, technical difficulties, market acceptance of the new products and technologies, including without limitation the use and implementation of various certificate management technologies, changes in customer requirements and government regulations, delays in developing strategic partnerships, general economic conditions...

21/3,K/17 (Item 2 from file: 636) DIALOG(R)File 636: Gale Group Newsletter DB(TM) (c) 2009 Gale/Cengage, All rights reserved.

01072148 Supplier Number: 40664720 (USE FORMAT 7 FOR FULLTEXT)

ELECTRONIC DATA INTERCHANGE, OPEN NETWORKS AND BUSINESS SECURITY Computer Fraud & Security Bulletin , v 11 , n 4 , p N/A Feb. 1989 .

Language: English Record Type: Fulltext Document Type: Newsletter; Trade

Word Count: 3847

...and then compared with the stored form. Matching results in the EDI service being made available, but mismatch terminates the log-on. There is a limit set to the number of log-on retries which may be made before all further attempts are barred and network services staff alerted.

These network services staff follow a...for the data transmission session. The message's digital signature is encrypted using A's private key, and decrypted by recipient B using A's **public key**, which has been sent to him.

Successful decryption proves not only the integrity of the entire EDI message but also that the private key, held by A, is the only key that could have...factor on the adoption of EDI; legal rules of evidence may be less than ideal while not intentionally forming a barrier to progress. The wide use of the UNCID rules should be of

great benefit in allowing parties to foresee and forestall potential problems.

As use of EDI grows there will be an increasing need...

21/3,K/19 (Item 2 from file: 16)

DIALOG(R)File 16: Gale Group PROMT(R)

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04993074 Supplier Number: 47333550 (USE FORMAT 7 FOR FULLTEXT)

Role of Digital Certificates Looks Secure; But roadblocks to use include no interoperability, too many issuing authorities

Kosiur, Dave PC Week, p 115 April 28, 1997

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Tabloid; General Trade

Word Count: 1412

...A sender can generate a digital signature for a message using a private key, but recipients of the signed message need the sender's corresponding public key to verify the digital signature. Obtaining

a copy of the sender's digital certificate is one way of doing this.

Corporations also can issue digital certificates to...

...or CAs, will verify each other's certificates as more issuers join the marketplace and more people use digital certificates. Right now, there are a limited number of well-known, trusted CAs, including but not limited to the U.S. Postal Service, VeriSign and Entrust Technologies Inc., but the number will grow...

21/3,K/20 (Item 3 from file: 16) DIALOG(R)File 16: Gale Group PROMT(R) (c) 2009 Gale/Cengage. All rights reserved.

04544262 Supplier Number: 46678243 (USE FORMAT 7 FOR FULLTEXT)

The key to security InfoWorld, p 01 Sept 2, 1996

Language: English Record Type: Fulltext Document Type: Magazine/Journal; Trade

Word Count: 2677

 \dots mathematically different implementation of the asymmetrical model, and it is the method employed by DSN's NetFortress.

THE REAL YOU. Using public or public and **private keys** is the foundation of encryption, but keys can't **verify** a recipient's identity.

"When you're talking about sending secured messages, there are two goals you've got. One is to make sure that... Era Act of 1996 also sits

before the Senate.

All three laws would relax the 40-bit restriction on keys as well as eliminate other **restrictions** on international **use** and development of encryption.

Officials of U.S. corporations look forward to these changes and believe that such changes would improve their ability to compete...

21/3,K/21 (Item 4 from file: 16) DIALOG(R)File 16: Gale Group PROMT(R) (c) 2009 Gale/Cengage. All rights reserved.

04422462 Supplier Number: 46488417 (USE FORMAT 7 FOR FULLTEXT)

Livermore Labs, Bank of America debut secure EDI PC Week , p 010 June 24 , 1996 Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Tabloid ; General Trade

Word Count: 490

...s success in making "cash" transactions over the Internet, the commercial product that may emerge from the endeavor could have a leg up on the limited number of EDI applications already on the market.

Potential competitors include Premenos Corp., Harbinger Corp., General Electric Information Services Inc., Sterling Commerce Inc. and Electronic Commerce...

...which uses RSA Security Inc.'s dual-key cryptography algorithms in conjunction with standard MIME (Multipurpose Internet Mail Extension). The RSA algorithms use public and **private kevs**.

The process starts with Livermore Labs' MIC (Message Integrity Check). The MIC is encrypted with the labs' private

key, and the encrypted MIC is embedded in the Internet E-mail message as a MIME attachment.

The process automatically produces a DES (Digital Encryption Standard

21/3,K/22 (Item 5 from file: 16) DIALOG(R)File 16: Gale Group PROMT(R) (c) 2009 Gale/Cengage. All rights reserved.

03701807 Supplier Number: 45240798 (USE FORMAT 7 FOR FULLTEXT)

Making Security A Reality For All InformationWeek, p 38 Jan 2, 1995

Language: English Record Type: Fulltext Document Type: Magazine/Journal; Tabloid; General Trade

Word Count: 1515

... Reynolds, a senior consultant with EDS Corp.'s management-consulting

```
services in Plano, Texas. One answer is to create some kind of
certification authority to validate public keys and to
issue certificate revocation lists if a kev is lost or stolen. Digital
certificates - documents that vouch for the ownership of a public key ...
...might be a continent away. Cyber notaries could approve the
certification and allow the deal to proceed under an umbrella of trust.
'We're creating rules for the use of certification
authorities,' says Baum.
    No one knows what impact the Republican Party's sweep of Congress will
have on either Clipper or the government...
21/3,K/23 (Item 1 from file: 148)
DIALOG(R)File 148: Gale Group Trade & Industry DB
(c) 2009 Gale/Cengage, All rights reserved.
09500797 Supplier Number: 19437891 (USE FORMAT 7 OR 9 FOR FULL TEXT.)
Ordering by E-mail. (Internet Tips)(includes related glossary of Internet buzzwords) (Internet/Web/Online Service
Information)
Heim, Judy
PC World, v15, n6, p286(2)
June . 1997
ISSN: 0737-8939
Language: English
Record Type: Fulltext
Word Count: 1579 Line Count: 00124
...you may receive with each piece of e-mail, receipt and delivery can be
slow. Some of the services permit you to receive only a limited
number of messages each week, and some may store waiting mail on the
service for only a week, then delete it. Also, while these services say ...
... The character string is a calculation based on the sender's secret key
```

and the contents of the message. To authenticate a message, the recipient checks it with the sender's public kev. Encryption. The process of encoding a document so others can't read

it.

Kevs. In the RSA scheme, you use a public key and a...

21/3,K/24 (Item 2 from file: 148) DIALOG(R)File 148: Gale Group Trade & Industry DB (c) 2009 Gale/Cengage. All rights reserved.

08937535 Supplier Number: 18643471 (USE FORMAT 7 OR 9 FOR FULL TEXT) The key to security, (includes related article on exporting encryption) (Technology Information)

Bort, Julie InfoWorld, v18, n36, p1(3) Sep 2, 1996 ISSN: 0199-6649 Language: English

Record Type: Fulltext; Abstract

Word Count; 2780 Line Count; 00223

...mathematically different implementation of the asymmetrical model, and it is the method employed by DSN's NetFortress.

THE REAL YOU. Using public or public and **private keys** is the foundation of encryption, but keys can't **verify** a recipient's identity.

"When you're talking about sending secured messages, there are two goals you've got. One is to make sure that...Era Act of 1996 also sits before the Senate.

All three laws would relax the 40-bit restriction on keys as well as eliminate other restrictions on international use and development of encryption.

Officials of U.S. corporations look forward to these changes and believe that such changes would improve their ability to compete...

21/3,K/25 (Item 3 from file: 148) DIALOG(R)File 148: Gale Group Trade & Industry DB (c) 2009 Gale/Cengage. All rights reserved.

08753456 Supplier Number: 18371288 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Data security: key issue in an age of pervasive computing.(Cover Story)

Strassberg, Dan EDN, v41, n8, p48(7) April 11, 1996 Document Type: Cover Story ISSN: 0012-7515 Language: English Record Type: Fulltext; Abstract

Word Count: 4164 Line Count: 00334

...writing in which units of plain text are substituted according to a predetermined key, the key to such a system, or a ciphered message." Cryptographers use the terms "plaintext" and "cipher-text" to refer to the content of messages before and after encryption.

Although encryption dates back at least to the Middle Ages...Such modifications and forgeries are more difficult with these protocols than with handwritten signatures.

Still, message originators can disavow digital signatures. Someone who uses his **secret key** to encrypt a message and thus guarantee the message's **authenticity** can claim that, before he encrypted the message, a third party gained access to the key without his knowledge. The originator can claim that he...

21/3,K/26 (Item 4 from file: 148) DIALOG(R)File 148: Gale Group Trade & Industry DB (c) 2009 Gale/Cengage. All rights reserved.

08298180 Supplier Number: 17610992 (USE FORMAT 7 OR 9 FOR FULL TEXT) The Internet and EDI. (electronic data interchange) (Technology Information) Muiznieks, Vik Telecommunications , v29 , n11 , p45(3) Nov , 1995 ISSN: 0278-4831 Language: English

Record Type: Fulltext; Abstract

Word Count: 1533 Line Count: 00139

...for file transfer, hypertext transfer protocol (HTTP) for World Wide Web access, and telnet for remote log-ins. Each of these application protocols presents different limitations with respect to use and

value-added functions such as security, encryption, and non-repudiation. Taking mail as an example, SMTP, as defined by the Internet

Engineering Task Torce (IETT) standard request for comment (RFC) 822, performs the message transmission function, but only supports seven-bit American standard code for information interchange (ASCII) transmissions, limits the number of recipients, and often limits the maximum message size. Modifications to SMTP were needed to address the needs of EC/EDI. These modifications came in...

...PEM capabilities are described in RFCs 1421 to 1424, and provide for the confidentiality of messages via encryption, originator authentication, content integrity via message integrity check (MIC) algorithms, and non-repudiation if a public key mechanism is used. PGP, a privately developed public/private key system, provides mechanisms for encryption and authentication.

For EDI-based security, many companies deploy firewalls ...

21/3,K/27 (Item 5 from file: 148) DIALOG(R)File 148: Gale Group Trade & Industry DB (c) 2009 Gale/Cengage, All rights reserved.

06716810 Supplier Number: 14430724 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Bob Young: vice-president, NetWare Systems Group. (NetWare 4: Q&A) (Interview)

InfoWorld, v15, n40, p863(2) Oct 4, 1993 Document Type: Interview

ISSN: 0199-6649 Language: ENGLISH

Record Type: FULLTEXT; ABSTRACT Word Count: 939 Line Count: 00077

...addition, NetWare Directory Services differ from Banyan's in the following areas:

 \star Flexibility. NDS can have a hierarchical tree from two levels to an unlimited number. Banyan has a $fixed\ three-level$ hierarchy

that cannot adjust to different organizational needs.

 * Reliability. NDS is a global, distributed, and replicated database that protects against single points of...

 \ldots synchronization overhead. In larger organizations, Banyan's performance starts to degrade.

 * Security. The network login and background authentication associated with NDS are secured with a proven industry standard public

key technology. Banyan uses its own private token-based technology.

Q: With the ability to run application in Ring 3, can NetWare function

as an application...

21/3,K/28 (Item 6 from file: 148) DIALOG(R)File 148: Gale Group Trade & Industry DB (c) 2009 Gale/Cengage. All rights reserved.

05855656 Supplier Number: 12186859 (USE FORMAT 7 OR 9 FOR FULL TEXT) Vendors shouldn't profit on NIST signature standard. (National Institute of Standards and Technology, IRM Notebook) (Column)

Houser, Walter R. Government Computer News , v11 , n9 , p19(1) April 27 , 19192 Document Type: Column ISSN: 0738-4300 Language: ENGLISH

Record Type: FULLTEXT; ABSTRACT

Word Count: 983 Line Count: 00076

...to code the message so it is uniquely readable by the intended recipient. Only the recipient knows the private key necessary to decrypt the message.

Public-key algorithms can serve as digital signatures, ensuring the authenticity and integrity of messages. Messages can be "signed" by encrypting them with the sender's private key; the signature can be verified by the receiver...

...decodes properly, the receiver knows that the sender actually sent it.

The basic difference between DSS and RSA is that RSA Data Security
owns the rights to commercial use of the RSA encryption
algorithm. NIST has applied for a patent for the DSS algorithm, which NIST
has put into the public domain, making it...

21/3,K/29 (Item 7 from file: 148) DIALOG(R)File 148: Gale Group Trade & Industry DB (c) 2009 Gale/Cengage. All rights reserved.

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Finding the key to keeping records private. (ways to protect the confidentiality of electronic messages on private networks) (column)

Houser, Walter R.
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...and uses that key to code the message. However, only the intended recipient should know the secret private key necessary to decrypt the incoming message.

Public-key algorithms can serve as digital signatures, ensuring the authenticity and integrity of messages. Messages can be "signed" by encrypting them with the sender's private key. The signature can be verified by the receiver...

...Institute of Standards and Technology is developign a public-key digital signature standard for the federal government. There already are several such techniques, but patent restrictions complicate their use

The holders of patent rights would expect royalty payments from commercial developers and users. Furthermore, because the recipient cannot tell from the incoming message which...

...still is looking at hashing functions to find one that complements the standard. The U.S. Postal Service has been approached to serve as a certifying authority for exchange of public keys. If

USPS declines, perhaps the public telephone or data networks would step up. NIST typically works with industry to develop national standards that then are...

V. Additional Resources Searched

Financial Times FullText (via ProQuest): No relevant results.

Internet & Personal Computing Abstracts (via EBSCOhost): No relevant results.